

Basic Data
Relating to
the National
Institutes of
Health

U.S. DEPARTMENT
OF HEALTH AND
HUMAN SERVICES
Public Health Service
National Institutes
of Health

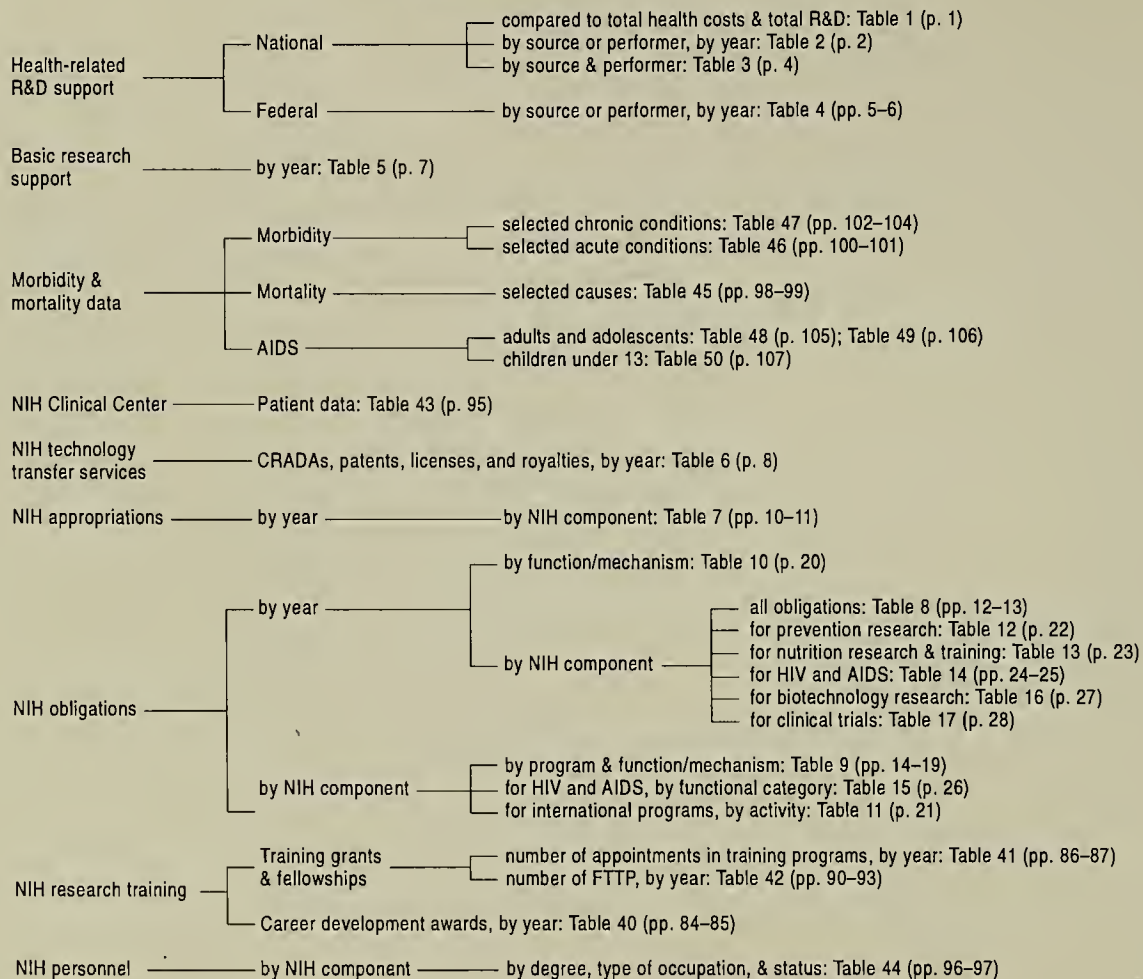


NIH
DATA
BOOK
1994

GRANTS

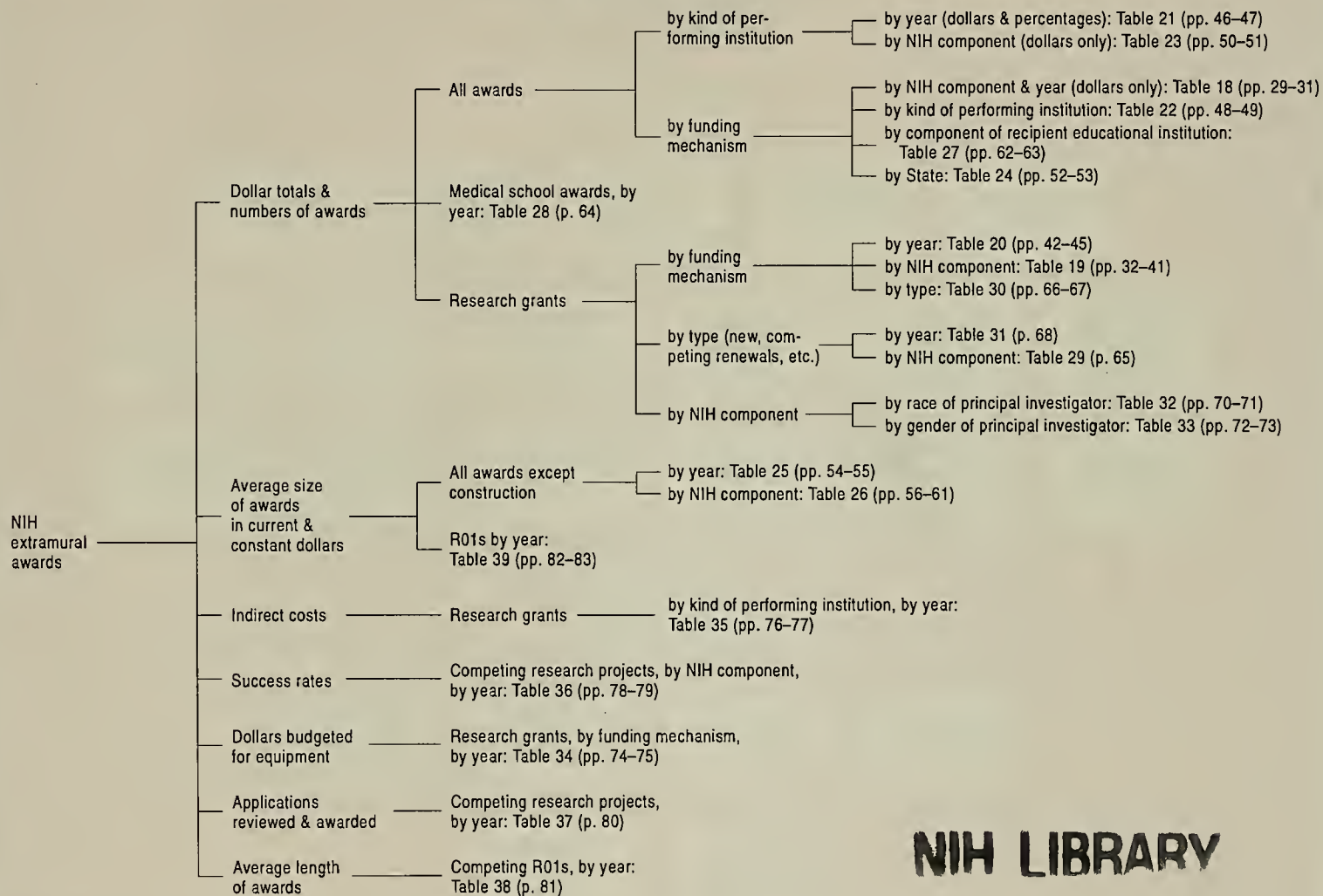
RA
11
.D159
1994

Table Finder Key



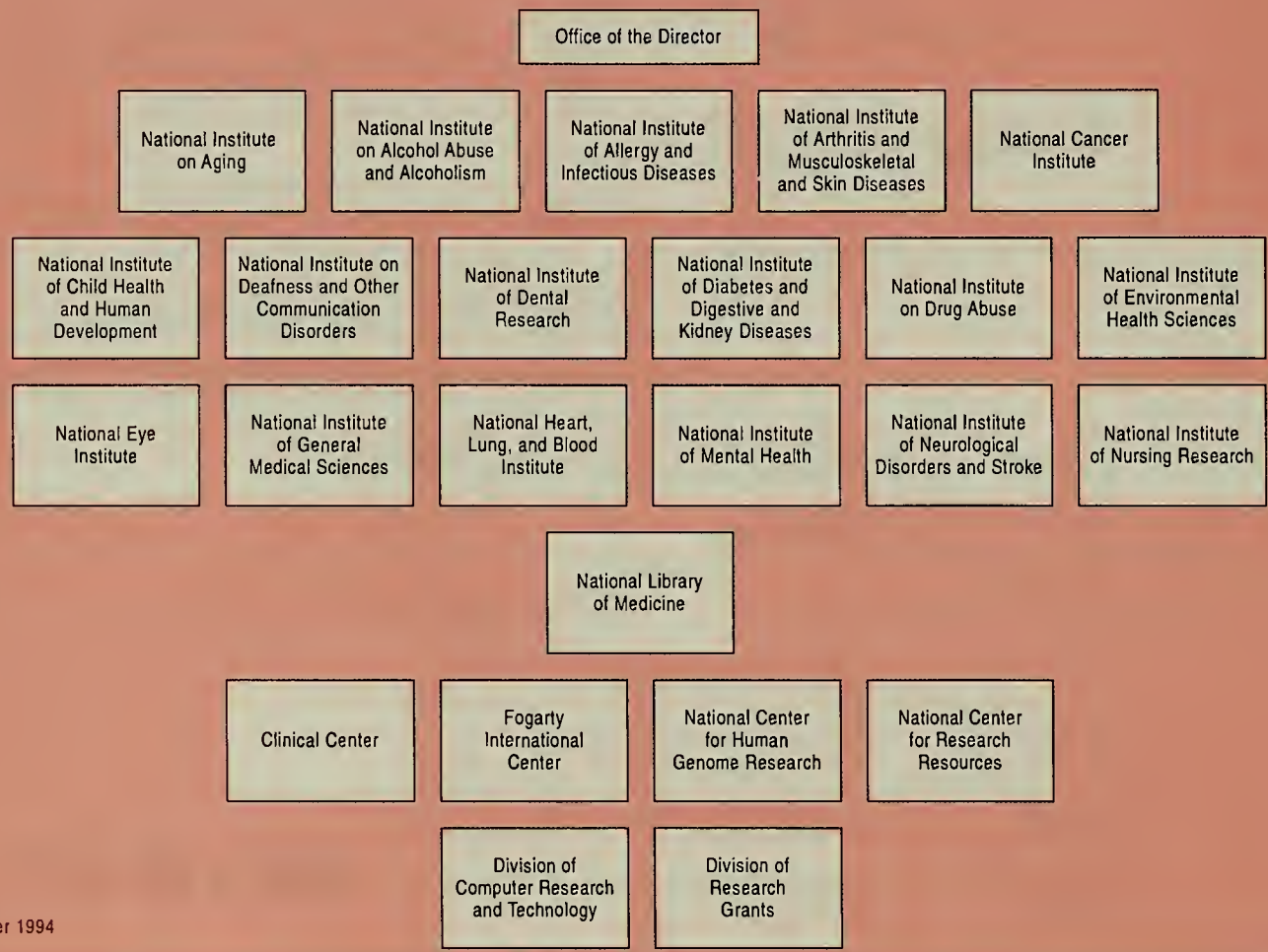
(Continued)

Table Finder Key (Cont.)



NIH LIBRARY

**Department of Health and Human Services
Public Health Service
National Institutes of Health**





DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

June 15, 1995

National Institutes of Health
Bethesda, Maryland 20892

TO: Users of the *NIH Data Book*

FROM: Acting Deputy Director for Science Policy and Technology Transfer

SUBJECT: *NIH Data Book* (Basic Data Relating to the National Institutes of Health), 1994

The Office of Science Policy and Technology Transfer, with the invaluable assistance of the NIH Division of Research Grants, and data supplied by other NIH and Federal offices, has again compiled the *NIH Data Book*. Since 1961, the *Data Book* has been published annually as a ready source of financial information on NIH programs and related Federal and national activities. It is available to NIH staff and others interested in NIH budget issues and health R&D policy.

In Fiscal Year 1993, three research institutes, the National Institute on Alcohol Abuse and Alcoholism, the National Institute on Drug Abuse, and the National Institute of Mental Health, were transferred to the NIH from the former Alcohol, Drug Abuse, and Mental Health Administration. In this edition of the *Data Book*, data for these institutes have been added into the ten previous years wherever possible. When the specific lines of the tables could not be matched, total figures were added. In addition, three new tables have been added to the *Data Book*: one shows the numbers of adolescent cases of AIDS by gender, race/ethnicity, and exposure category (Table 49); and two show research grants by race (Table 32) and gender (Table 33) of the principal investigator or program director. Also, NIH awards tables presented by type of award were expanded to include data on contracts, training, and construction (Tables 19 and 20).

Suggestions and questions on any aspect of the *Data Book* should be directed to the Office of Strategic Planning and Evaluation, OSPTT (301-496-9291).


Daryl A. (Sandy) Chamblee, J.D.

Contents

■ NIH in the National Health Scene

National Expenditures for Total Health Costs, Total R&D, and Health R&D, 1984–1993 (Table 1).....	1
Health R&D as a Percentage of Total R&D, and of Total Health Costs, 1984 and 1993 (Figure 1.1)	1
Percentage Change Since 1984 in Total Health Costs, Total R&D, and Health R&D, 1985–1993 (Figure 1.2)	1
National Support for Health R&D by Source or Performer, 1984–1994 (Table 2).....	2
National Support for Health R&D by Source, 1984–1994 (Figure 2.1)	3
National Support for Health R&D by Source and Performer, 1993 (est.) (Table 3).....	4
Performer Distribution of Federal and Industry Health R&D Support, 1993 (est.) (Figure 3.1)	4
Federal Obligations for Health R&D by Source or Performer, Fiscal Years 1984–1993 (Table 4).....	5
National, Federal, and NIH Basic Research Support, Fiscal Years 1984–1993 (Table 5).....	7
National, Federal, and NIH Basic Research Support, Fiscal Year 1993 (est.) (Figure 5.1)	7
NIH Technology Transfer Services, Fiscal Years 1985–1993 (Table 6).....	8
NIH Technology Transfer Services, Fiscal Years 1985–1993 (Figure 6.1)	9

■ NIH Appropriations and Obligations

NIH Appropriations by NIH Component, Fiscal Years 1984–1994 (Table 7).....	10
NIH Obligations by NIH Component, Fiscal Years 1984–1993 in Current and Constant Dollars (Table 8).....	12
NIH Obligations by NIH Component, Program Activity, and Function/Mechanism, Fiscal Year 1993 (Table 9).....	14
NIH Obligations by Function/Mechanism, Fiscal Years 1984–1993 (Table 10)	20
NIH Obligations for International Programs by Activity and NIH Component, Fiscal Year 1993 (Table 11)	21
NIH Obligations for Prevention Research by NIH Component, Fiscal Years 1984–1993 (Table 12)	22
NIH Obligations for Nutrition Research and Training by NIH Component, Fiscal Years 1984–1993 (Table 13)	23
Obligations for HIV and AIDS by NIH and Other PHS Components, Fiscal Years 1984–1994 (Table 14)	24
NIH Obligations for HIV and AIDS by NIH Component and Functional Category, Fiscal Year 1994 (Table 15)	26
NIH Obligations for Biotechnology Research by NIH Component, Fiscal Years 1985–1993 (Table 16)	27
NIH Obligations for Clinical Trials by NIH Component, Fiscal Years 1984–1993 (Table 17)	28

(Continued)

Contents (Cont.)

■ NIH Extramural Awards

NIH Awards by NIH Component and Funding Mechanism, Fiscal Years 1984–1993 (Table 18)	29
NIH Awards by Kind of Award and NIH Component, Fiscal Year 1993 (Table 19)	32
NIH Awards by Kind of Award, Fiscal Years 1984–1993 (Table 20)	42
NIH Awards by Kind of Performing Institution, Fiscal Years 1984–1993 (Table 21)	46
NIH Awards by Kind of Performing Institution and Funding Mechanism, Fiscal Year 1993 (Table 22)	48
NIH Awards by NIH Component and Kind of Performing Institution, Fiscal Year 1993 (Table 23)	50
NIH Awards by State and Funding Mechanism, Fiscal Year 1993 (Table 24)	52
Average Size of NIH Awards by Kind of Award, Fiscal Years 1984–1993 in Current and Constant Dollars (Table 25)	54
Average Size of NIH Awards by Kind of Award and NIH Component, Fiscal Year 1984, and Fiscal Year 1993 in Current and Constant Dollars (Table 26)	56
NIH Awards to U.S. Institutions of Higher Education by Component and Funding Mechanism, Fiscal Year 1993 (Table 27)	62
NIH Awards to U.S. Medical Schools by Funding Mechanism, Fiscal Years 1984–1993 (Table 28)	64

NIH Extramural Awards (Cont.)

NIH Research Grants by NIH Component and Type, Fiscal Year 1993 (Table 29)	65
NIH Research Grants by Kind and Type, Fiscal Year 1993 (Table 30)	66
NIH Research Grants by Type, Fiscal Years 1984–1993 (Table 31)	68
NIH Research Grants by Type, Fiscal Years 1984–1993 (Figure 31.1)	69
NIH Research Grants by NIH Component and Race of Principal Investigator or Program Director, Fiscal Year 1993 (Table 32)	70
NIH Research Grants by NIH Component and Gender of Principal Investigator or Program Director, Fiscal Year 1993 (Table 33)	72
NIH Research Grants with Dollars Budgeted for Equipment by Kind of Grant, Fiscal Years 1984–1993 (Table 34)	74
Indirect Costs of NIH Research Grants by Type of Performer, Fiscal Years 1984–1993 (Table 35)	76
Number of Awards and Success Rates for NIH Competing Research Projects by NIH Component, Fiscal Years 1984–1993 (Table 36)	78
Applications for NIH Competing Research Projects Reviewed and Awarded, Fiscal Years 1984–1993 (Table 37)	80

(Continued)

Contents (Cont.)

NIH Extramural Awards (Cont.)

Number of Applications for NIH Competing Research Projects and Number and Dollars of Awards, Fiscal Years 1984–1993 (Figure 37.1)	80
Average Length in Years of Competing Traditional Research Project (R01) Awards by NIH Component, Fiscal Years 1984–1993 (Table 38)	81
Average Size of Traditional Research Project (R01) Awards by NIH Component, Fiscal Years 1984–1993 in Current and Constant Dollars (Table 39)	82
Major NIH Career Development Awards by Recipient's Type of Doctorate, Fiscal Years 1984–1993 (Table 40)	84

■ NIH Research Training

Number of Appointments in NIH Research Training Programs by Academic Level and Type, Fiscal Years 1984–1993 (Table 41)	86
NIH Postdoctoral Training Appointments, Fiscal Year 1993 (est.) (Figure 41.1)	88
Number of Appointments in NIH Research Training Programs by Academic Level, Fiscal Years 1984–1993 (Figure 41.2)	89
Number of NIH Full-Time-Equivalent Training Positions (FTTP) by Academic Level, NIH Component, and Type, Fiscal Years 1984–1993 (Table 42)	90

NIH Research Training (Cont.)

Number of NIH Full-Time-Equivalent Training Positions (FTTP) by Academic Level, NIH Component, and Type, Fiscal Year 1993 (Figure 42.1)	94
--	----

■ NIH Staff and Clinical Center

Clinical Center Data by NIH Component, Fiscal Years 1987, 1990, and 1993 (Table 43)	95
NIH Personnel by Degree Held, Type of Occupation, NIH Component, Program, and Status as of End of Fiscal Year 1993 (Table 44)	96

■ National Mortality and Morbidity Data

Mortality from Selected Causes, United States, 1981 and 1991 (Table 45)	98
Morbidity from Selected Acute Conditions, United States, 1992 (Table 46)	100
Morbidity from Selected Chronic Conditions, United States, 1992 (Table 47)	102
Numbers of Newly Reported Cases of AIDS and Numbers of Deaths of Adults and Adolescents, United States, by Exposure Category, 1984–1993 (Table 48)	105
Numbers of Adult and Adolescent Cases of AIDS, by Gender, Race/Ethnicity, and Exposure Category Reported in 1993, United States (Table 49)	106

(Continued)

Contents (Cont.)

National Mortality and Morbidity Data (Cont.)		Technical Notes, Definitions, Codes, and Abbreviations (Cont.)	
Numbers of Newly Reported Cases of Pediatric AIDS and Numbers of Deaths of Children Under 13, United States, by Exposure Category, 1984–1993 (Table 50)	107	Definitions	110
		NIH Activity Codes Used in Extramural Programs	112
		Abbreviations	114
■ Technical Notes, Definitions, Codes, and Abbreviations		■ Index	116
Technical Notes	108	■ NIH Biomedical Research and Development Price Index (BRDPI), Fiscal Years 1984–1994	(Inside back cover)

Table 1

National Expenditures for Total Health Costs, Total R&D, and Health R&D, 1984–1993

(Billions of Dollars)

National expenditures for:	1984	1985	1986	1987	1988	1989	1990	1991	1992 (est.)	1993 (est.)
Total Health Costs ^a	\$392.4	\$430.8	\$464.6	\$504.1	\$557.1	\$618.3	\$689.5	\$751.0	\$818.5	\$884.9
Total R&D ^b	101.2	113.8	119.6	125.4	133.8	140.8	146.4	160.2	166.8	174.4
Health R&D	12.2	13.6	14.9	16.9	19.0	20.9	23.1	25.9	29.2	31.0

^a Sources: Health Care Financing Administration and Office of Strategic Planning and Evaluation, OSPTT, NIH.^b Sources: National Science Foundation and Office of Strategic Planning and Evaluation, OSPTT, NIH.

Figure 1.1

Health R&D as a Percentage of Total R&D, and of Total Health Costs, 1984 and 1993

(Dollars in Billions)

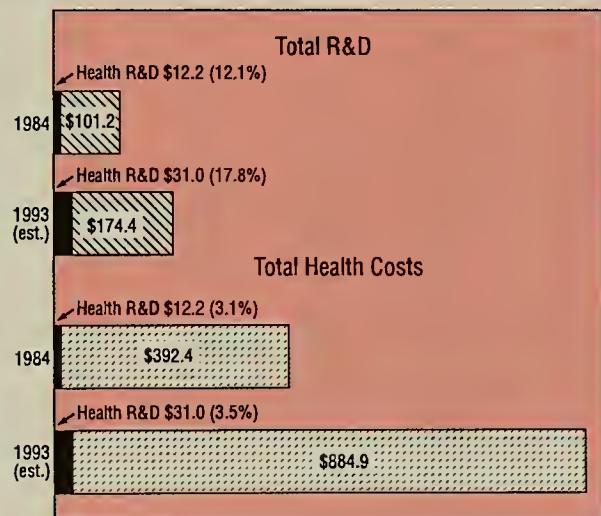
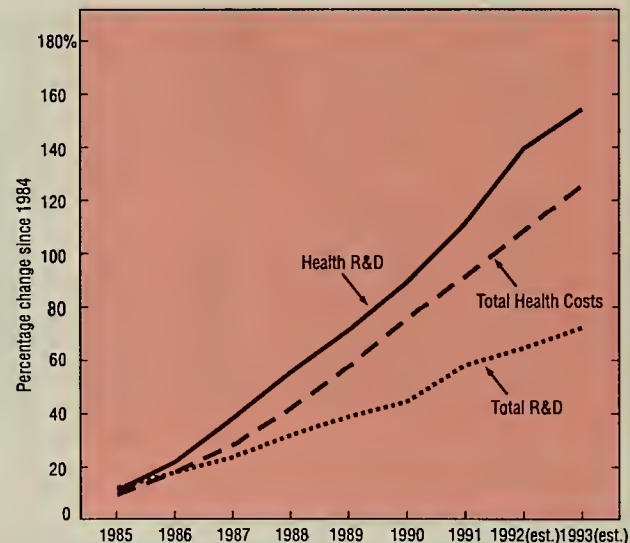


Figure 1.2

Percentage Change Since 1984 in Total Health Costs, Total R&D, and Health R&D, 1985–1993



Sources: HCFA, NSF, and Office of Strategic Planning and Evaluation, OSPTT, NIH

Table 2

National Support for Health R&D by Source or Performer, 1984-1994^a

(Millions of Dollars)

Sector	1984	1985	1986	1987	1988	1989	1990	1991	1992 (est.)	1993 (est.)	1994 (proj.)
Total of A or B	\$12,160	\$13,567	\$14,898	\$16,933	\$19,003	\$20,918	\$23,095	\$25,886	\$29,240	\$31,032	\$32,919
A. BY SOURCE OF FUNDS											
Government	6,883	7,669	7,924	9,028	9,726	10,629	11,416	12,435	13,660	14,106	14,537
Federal	6,087	6,791	6,895	7,847	8,431	9,163	9,791	10,602	11,726	12,051	12,341
NIH	(4,257)	(4,828)	(5,005)	(5,852)	(6,292)	(6,778)	(7,136)	(7,696)	(8,407)	(9,763)	(10,340)
ADAMHA	(340)	(378)	(396)	(476)	(555)	(696)	(892)	(974)	(1,159)	-	-
State & local	796	878	1,029	1,182	1,295	1,466	1,625	1,833	1,933	2,054	2,196
Industry	4,771	5,360	6,192	7,105	8,438	9,407	10,719	12,361	14,397	15,711	17,106
Private nonprofit	506	538	782	800	839	882	960	1,090	1,183	1,215	1,276
Foundations	111	122	129	161	155	129	155	175	213	201	212
Voluntary health agencies	205	233	260	285	323	354	363	394	421	464	483
Howard Hughes Medical Institute ^b	79	51 ^c	247	183	179	197	215	250	258	251	262
Other	112	133	146	171	182	202	228	272	291	298	319
B. BY PERFORMER											
Government	1,997	2,140	2,155	2,388	2,590	2,577	2,863	2,994	3,388	3,496	3,601
Federal ^d	1,741	1,869	1,848	2,042	2,214	2,162	2,403	2,480	2,838	2,916	2,987
State & local	256	270	307	346	376	415	460	514	551	580	614
Industry ^e	4,221	4,668	5,297	6,004	6,933	7,903	8,880	10,217	11,743	12,810	13,970
Private nonprofit	5,245	5,954	6,472	7,401	8,037	8,979	9,574	10,744	11,786	12,246	12,736
Higher education ^e	4,270	4,839	5,315	6,049	6,574	7,202	7,697	8,697	9,280	9,640	10,031
Other ^e	976	1,115	1,157	1,352	1,462	1,777	1,877	2,048	2,506	2,606	2,705
Foreign	697	805	975	1,140	1,443	1,459	1,779	1,930	2,323	2,479	2,612

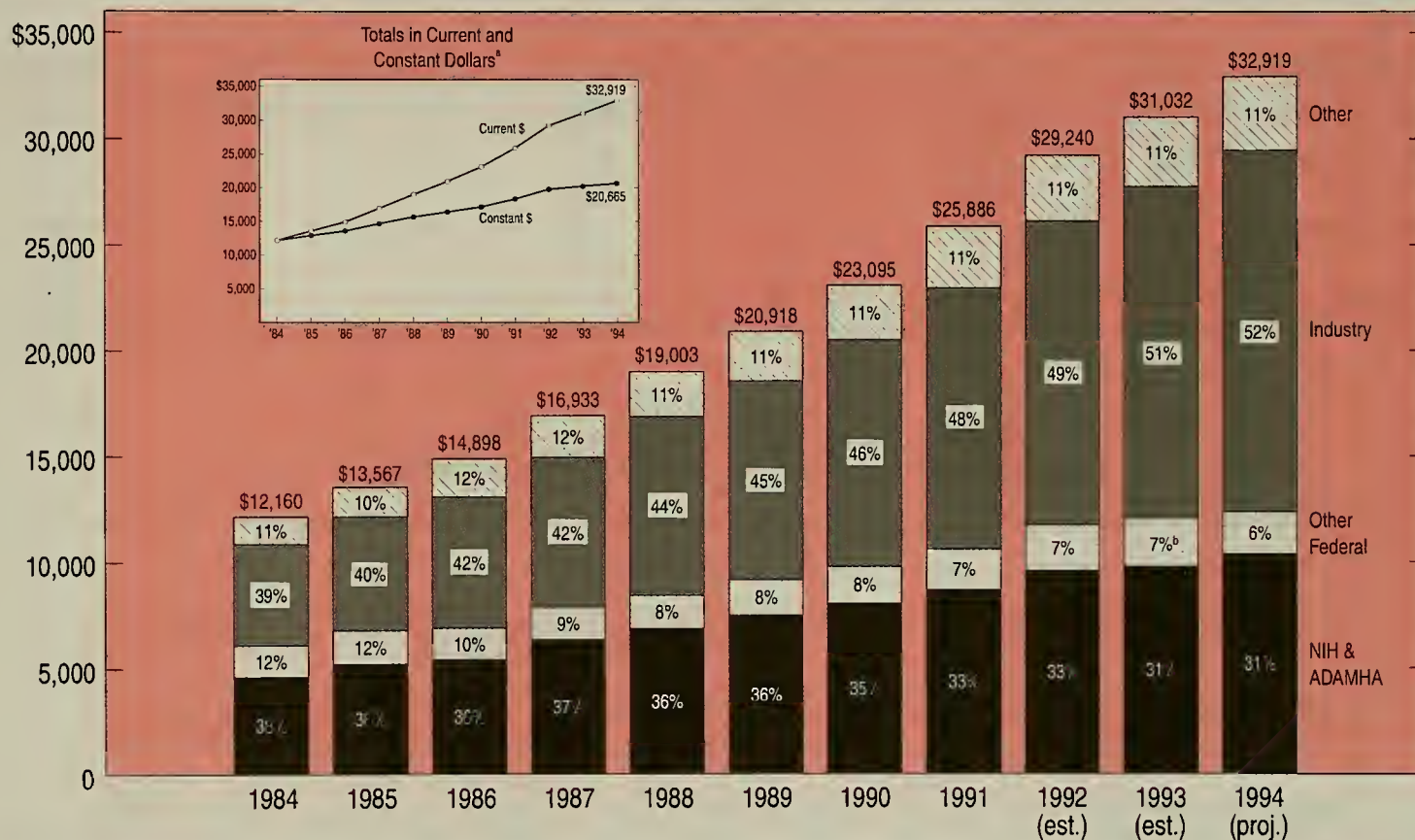
^a Revised.^b These figures report support for the direct conduct of biomedical research. In addition, HHMI's Office of Grants and Special Programs provides support for scientific career development, which is not included here.^c Total includes only eight months of operations due to change in fiscal year.^d In addition to in-house research, includes program management and direct operations attributable to health R&D.^e Includes Federally Funded R&D Centers.

Source: Office of Strategic Planning and Evaluation, OSPTT

Figure 2.1

National Support for Health R&D by Source, 1984-1994

(Dollars in Millions)

^a FY 1984=100. Constant dollars based on Biomedical R&D Price Index (see inside back cover).^b Decrease in 1993 reflects transfer of NIAAA, NIDA, and NIMH from ADAMHA into NIH.

Source: Office of Strategic Planning and Evaluation, OSPTT

Table 3

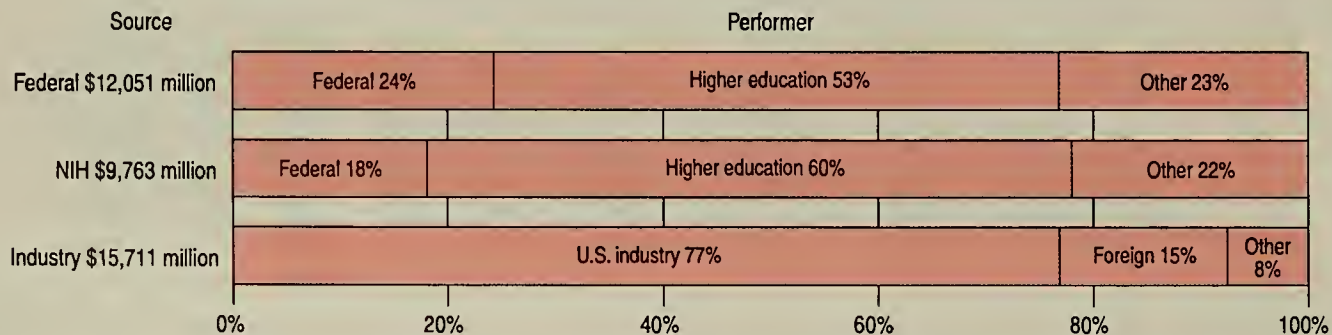
National Support for Health R&D by Source and Performer, 1993 (est.)

(Millions of Dollars)

Source of support	Total	Performer					
		Federal	State and local	Industry	Higher education	Other nonprofit	Foreign
Total	\$31,032	\$2,916	\$580	\$12,810	\$9,640	\$2,606	\$2,480
Federal	12,051	2,912	120	649	6,354	1,951	65
NIH	(9,763)	(1,736)	(111)	(521)	(5,872)	(1,472)	(52)
State & local government	2,054	–	400	2	1,649	3	–
Industry	15,711	–	56	12,159	747	358	2,391
Private nonprofit	1,215	4	3	–	891	293	23

Figure 3.1

Performer Distribution of Federal and Industry Health R&D Support, 1993 (est.)



Source: Office of Strategic Planning and Evaluation, OSPTT

Table 4

Federal Obligations for Health R&D by Source or Performer, Fiscal Years 1984–1993

(Millions of Dollars)

	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993 (est.)
Total of A or B	\$6,087.1	\$6,790.8	\$6,895.3	\$7,846.5	\$8,430.6	\$9,163.2	\$9,790.6	\$10,601.6	\$11,726.4	\$12,051.4
<i>A. BY SOURCE OF FUNDS</i>										
HHS	4,800.3	5,411.4	5,593.6	6,539.5	7,090.3	7,778.1	8,341.2	9,089.5	10,058.6	10,289.0
NIH and ADAMHA	4,597.5	5,205.3	5,401.1	6,328.1	6,846.5	7,474.0	8,028.2	8,669.0	9,565.5	9,763.3
Other PHS	159.1	167.9	160.7	181.0	210.8	253.2	260.4	350.6	416.3	454.6
CDC	44.7	47.6	52.2	66.2	88.7	117.8	95.6	113.4	146.9	162.5
FDA	77.8	82.1	79.4	84.4	91.0	97.8	99.0	125.0	135.7	154.5
HRSA	18.5	19.7	12.0	9.2	10.0	10.5	10.0	11.0	10.2	9.6
OASH/AHCPR	18.1	18.6	17.1	21.2	21.0	27.2	55.8	101.1	123.5	128.0
Other HHS	43.8	38.2	31.8	30.4	33.0	50.9	52.6	69.9	76.9	71.1
Other agencies	1,286.8	1,379.4	1,301.7	1,307.0	1,340.3	1,385.1	1,449.4	1,512.1	1,667.8	1,762.4
Agriculture	147.9	142.6	77.6	99.3	107.4	114.9	109.8	109.1	119.4	114.9
Defense	414.2	439.9	496.4	407.1	431.0	384.6	429.9	404.2	482.9	612.2
Education	41.0	38.2	44.0	49.0	55.0	57.6	59.3	41.6	48.5	47.5
Energy	182.7	177.5	164.3	177.1	202.0	223.8	272.0	350.6	348.8	311.5
Environmental Protection	43.5	53.3	32.2	49.3	27.5	53.7	32.4	50.1	37.9	33.1
International Development (AID)	17.7	38.5	29.4	33.7	28.9	29.0	16.7	18.7	25.9	46.0
Aeronautics & Space	110.2	116.6	129.9	131.6	131.9	136.2	150.3	160.4	163.6	176.9

^a Includes FFRDCs.

Source: Office of Strategic Planning and Evaluation, OSPTT
(Continued)

Table 4 (Cont.)

**Federal Obligations for Health R&D by Source or
Performer, Fiscal Years 1984–1993**

(Millions of Dollars)

	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993 (est.)
<i>A. BY SOURCE OF FUNDS (cont.)</i>										
Other agencies (cont.)										
National Science Foundation	86.8	89.3	81.4	89.9	86.3	88.1	82.3	79.8	76.2	72.4
Veterans	190.3	226.6	186.2	209.5	215.3	235.3	237.7	217.2	270.4	236.2
Other	52.4	56.9	60.2	60.5	55.1	62.0	59.0	80.4	94.2	111.8
Total of A or B	\$6,087.1	\$6,790.8	\$6,895.3	\$7,846.5	\$8,430.6	\$9,163.2	\$9,790.6	\$10,601.6	\$11,726.4	\$12,051.4
<i>B. BY PERFORMER</i>										
Intramural (Federal)	1,739.0	1,867.3	1,845.3	2,039.2	2,211.2	2,158.3	2,399.4	2,476.8	2,833.8	2,912.3
Extramural (non-Federal)	4,348.0	4,923.5	5,050.0	5,807.3	6,219.3	7,004.9	7,391.2	8,124.7	8,892.7	9,139.1
State & local government	65.6	61.6	63.4	71.6	77.8	82.0	93.6	107.3	116.9	120.1
Industry ^a	361.9	363.5	376.5	429.4	436.9	528.5	601.5	595.9	631.8	649.3
Private nonprofit	3,875.9	4,450.4	4,564.2	5,242.9	5,646.1	6,324.5	6,623.0	7,365.1	8,080.6	8,304.5
Higher education ^a	3,124.9	3,587.6	3,685.3	4,226.8	4,564.0	4,975.7	5,216.1	5,857.3	6,182.4	6,353.7
Medical schools	(1,906.2)	(2,246.7)	(2,327.5)	(2,573.2)	(2,740.3)	(3,214.6)	(3,290.8)	(3,639.6)	(3,822.6)	(4,398.3)
Other ^a	750.9	862.8	878.8	1,016.1	1,082.2	1,348.8	1,406.9	1,507.8	1,898.2	1,950.8
Foreign	44.7	47.9	46.0	63.4	58.4	69.9	73.1	56.4	63.4	65.2

See footnote on first page of table.

Table 5

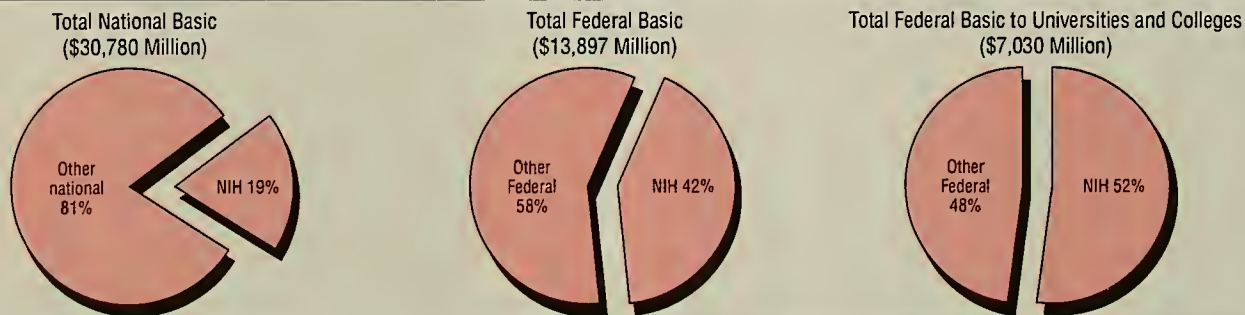
**National, Federal, and NIH Basic Research Support,
Fiscal Years 1984–1993**

(Dollars in Millions)

Source of support	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993 (est.)	NIH as percentage of total	
											1984	1993
Total national basic research support^a	\$12,931	\$14,210	\$16,613	\$18,023	\$18,807	\$20,691	\$22,123	\$28,187	\$29,208	\$30,780	22%	19%
Total Federal basic research support^b	7,067	7,819	8,153	8,942	9,474	10,602	11,286	12,171	12,490	13,897	40	42
NIH	2,796	3,215	3,322	3,808	4,061	4,361	4,648	5,049	5,057	5,882		
Other	4,271	4,604	4,831	5,134	5,413	6,241	6,638	7,122	7,433	8,015		
Total Federal basic research support to universities & colleges^b	3,531	4,039	4,132	4,666	4,868	5,221	5,548	6,064	6,230	7,030	51	52
NIH	1,804	2,108	2,131	2,517	2,585	2,719	2,904	3,168	3,190	3,651		
Other	1,727	1,931	2,001	2,149	2,283	2,502	2,644	2,896	3,040	3,379		

Figure 5.1

National, Federal, and NIH Basic Research Support, Fiscal Year 1993 (est.)



^a Expenditures data from NSF National Patterns of Science and Technology Resources. A new survey sampling procedure for collecting industry data was instituted by NSF in 1992, affecting data for 1991 forward.

^b Obligations data from NSF survey of Federal Funds for Research and Development.

NOTE: Total basic research figures represent all disciplines (including life sciences, psychology, physical sciences, mathematics and computer sciences, engineering, environmental sciences, and social sciences), and national total includes all sources (Federal, State, and local governments, industry, and private nonprofit sources).

Sources: National Science Foundation and Office of Strategic Planning and Evaluation, OSPTT, NIH

Table 6

NIH Technology Transfer Services, Fiscal Years 1985–1993

(Dollars in Millions)

	1985	1986	1987	1988	1989	1990	1991	1992	1993
Executed CRADAs ^a (Cooperative R&D Agreements)	1	4	10	20	42	32	26	30	41
Invention disclosures	100	100	134	185	199	212	204	262	232
Patent applications filed	62	78	85	125	178	184	169	202	161
Patents issued	33	27	29	35	27	38	43	70	88
Licenses issued ^b	25	38	35	44	50	41	61	59	75
Exclusive/co-exclusive	6	13	12	17	15	8	11	13	18
Nonexclusive	19	25	23	27	35	33	50	46	57
Royalties received by NIH	—	—	\$4.2	\$5.4	\$4.8	\$5.8	\$13.3 ^c	\$10.0	\$13.5

^a An agreement between a Federal laboratory and one or more collaborators (usually private corporations, but may also be State and local governments and nonprofit institutions), who for a designated period of time provide personnel, services, intellectual property, or information toward a joint research project. As an incentive for participation, the collaborating party may be granted, in advance, an exclusive right to license any resulting invention. The purpose of the CRADA is to make Federal facilities, scientific know-how, and existing intellectual property available for collaborative interactions with industry scientists, and for development of scientific and technological knowledge into useful, marketable products.

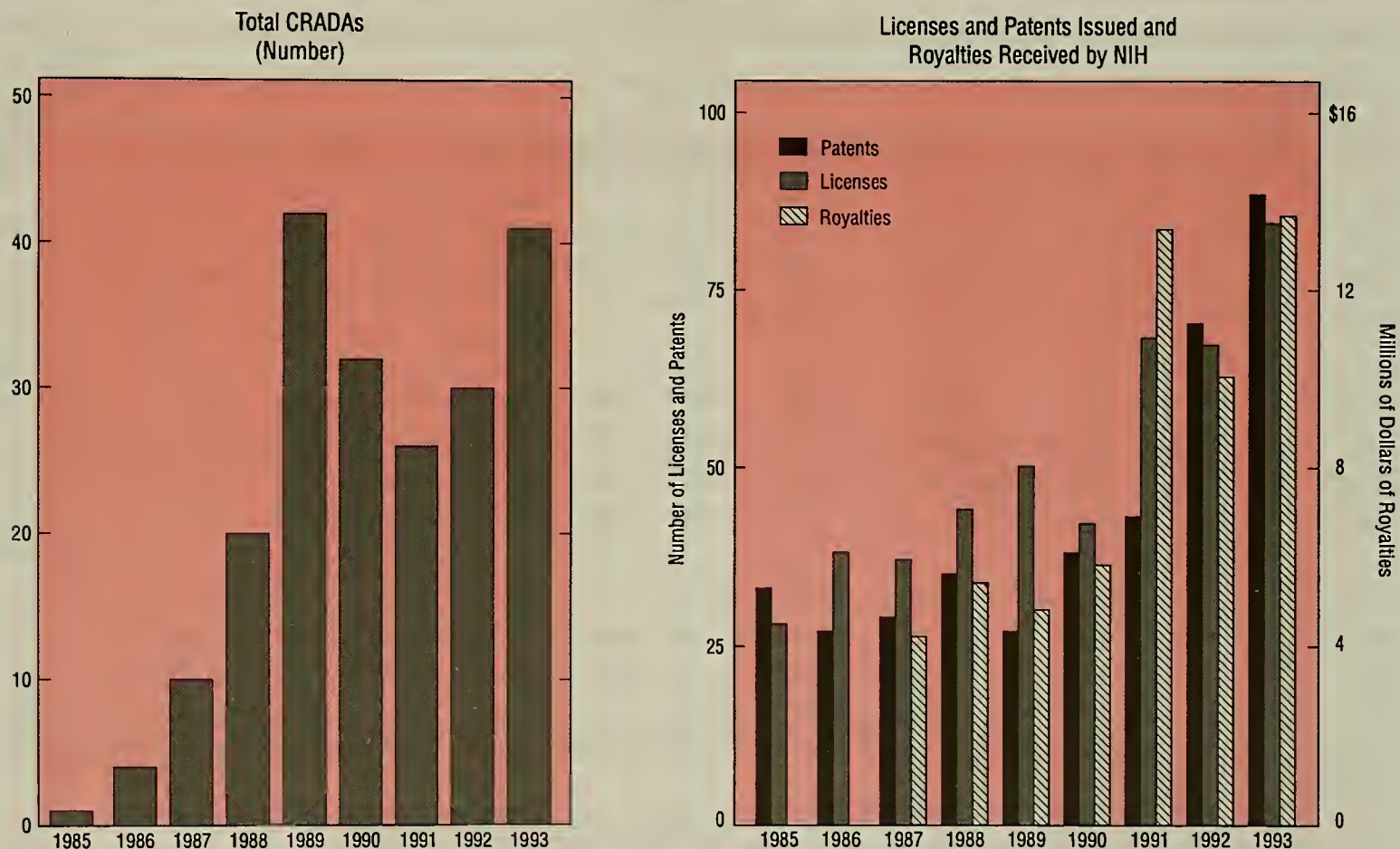
^b Counts based on execution date of license.

^c Includes one-time catch-up payment of \$6.2 million.

Source: Office of Technology Transfer, OSPTT

Figure 6.1

NIH Technology Transfer Services, Fiscal Years 1985-1993



Source: Office of Technology Transfer, OSPTT

Table 7

**NIH Appropriations by NIH Component,
Fiscal Years 1984–1994**

(Dollars in Thousands)

NIH component	1984	1985	1986	1987 ^a	1988	1989 ^b	1990 ^c	1991	1992	1993 ^d	1994	Percentage change	
												1984–94	1993–94
Total	\$4,810,345	\$5,520,191	\$5,886,170	\$6,691,128	\$7,243,222	\$7,885,357	\$8,495,328	\$9,330,503	\$10,065,684	\$10,326,603	\$10,937,653	127.4%	5.9%
NIA	114,921	144,444	156,352	176,931	194,746	222,643	239,455	323,752	383,611	399,924	420,303	265.7	5.1
NIAAA	54,827	61,677	66,395	83,357	92,763	120,051	149,194	158,141	171,481	176,619	185,617	238.6	5.1
NIAID	314,117	370,779	383,231	545,523	638,800	744,152	832,977	906,251	960,914	979,471	1,063,704	238.6	8.6
NIADDK	462,578	542,937	568,724	–	–	–	–	–	–	–	–	–	–
NIAMS	–	–	–	138,713	147,679	159,897	168,930	193,247	203,913	212,456	223,204	–	5.1
NCI	1,077,303	1,181,949	1,256,147	1,402,837	1,469,327	1,571,879	1,634,332	1,714,784	1,951,541	1,981,350	2,076,382	92.7	4.8
NICHD	275,179	313,150	321,581	366,780	396,811	425,649	442,914	478,956	519,724	527,788	554,881	101.6	5.1
NIDCD	–	–	–	–	–	91,677	117,583	134,935	149,102	154,814	162,823	–	5.2
NIDR	88,163	100,633	103,207	117,945	126,297	130,752	135,749	148,918	159,240	161,301	169,520	92.3	5.1
NIDDK	–	–	–	511,124	534,733	559,538	581,477	615,272	662,678	681,342	716,054	–	5.1
NIDA	71,098	81,130	83,311	139,307	156,252	228,171	329,560	383,656	399,100	403,806	425,201	498.0	5.3
NIEHS	179,806	194,553	197,379	209,294	215,666	223,454	229,234	241,028	252,031	251,187	264,249	47.0	5.2

^a In 1987, NIAMS, NIDDK, and NCNR appropriations were new.

^b In 1989, NIDCD and NINDS appropriations were new.

^c In 1990, NCHGR appropriation was new, and DRR was reorganized and renamed NCRR.

^d In 1993, ADAMHA was reorganized and renamed SAMHSA, and its three research institutes were transferred to NIH. Also, NCNR was made an institute and renamed NINR.

^e Includes AIDS funds appropriated to OD but transferred out to be awarded and administered. Also includes funds for NCNR which were administered under OD in 1986.

Source: Office of Financial Management
(Continued)

Table 7 (Cont.)

**NIH Appropriations by NIH Component,
Fiscal Years 1984–1994**

(Dollars in Thousands)

NIH component	1984	1985	1986	1987 ^a	1988	1989 ^b	1990 ^c	1991	1992	1993 ^d	1994	Percentage change	
												1984–94	1993–94
NEI	\$154,683	\$181,586	\$194,993	\$216,637	\$224,947	\$231,230	\$236,533	\$253,241	\$270,300	\$276,188	\$290,260	87.6	5.1
NIGMS	415,644	482,168	514,528	570,916	632,676	682,349	681,782	760,010	815,134	832,581	875,511	110.6	5.2
NHLBI	703,197	804,456	858,570	930,001	965,536	1,045,985	1,072,354	1,126,942	1,191,500	1,214,793	1,277,880	81.7	5.2
NIMH	208,279	232,734	242,066	287,804	327,514	384,928	440,222	511,967	560,285	583,651	613,444	194.5	5.1
NINCDS	335,205	396,683	433,094	490,233	534,692	–	–	–	–	–	–	–	–
NINDS	–	–	–	–	–	474,943	490,409	541,743	581,847	600,078	630,650	–	5.1
DRR/NCRR	242,636	303,854	305,553	322,860	368,153	358,608	353,734	335,255	314,551	312,468	331,915	36.8	6.2
FIC	11,336	11,578	11,390	11,420	15,651	15,848	15,516	17,519	19,609	19,733	21,677	91.2	9.9
NCHGR	–	–	–	–	–	–	59,538	87,418	104,878	106,239	127,112	–	19.6
NCNR/NINR	–	–	–	19,000	23,380	29,139	33,513	39,722	44,970	48,119	51,018	–	6.0
NLM	49,613	55,848	57,759	61,838	67,910	73,731	81,861	91,408	103,323	103,639	118,019	137.9	13.9
OD	26,720	38,302	116,990 ^e	56,708	61,819	72,201	107,419	97,651	142,112	190,325	227,190	750.3	19.4
Buildings & facilities	25,040	21,730	14,900	31,900	47,870	38,532	61,042	168,687	103,840	108,731	111,039	343.4	2.1

See footnotes on first page of table.

Table 8

**NIH Obligations by NIH Component,
Fiscal Years 1984–1993 in Current and Constant Dollars**

(Dollars in Millions)

NIH component	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
<i>CURRENT DOLLARS</i>										
Total	\$4,827.8	\$5,497.1	\$5,688.7	\$6,685.5	\$7,187.0	\$7,893.6	\$8,505.3	\$9,217.9	\$10,010.4	\$10,328.1
NIA	115.2	143.0	150.9	177.5	194.5	222.5	238.9	323.8	382.9	399.5
NIAAA	54.8	61.7	66.4	83.4	92.8	120.1	149.2	158.1	171.5	176.1
NIAID	319.6	370.0	367.1	545.4	638.5	740.2	831.2	906.0	960.1	984.1
NIADDK	463.7	539.5	—	—	—	—	—	—	—	—
NIAMS	—	—	111.3	138.7	147.5	159.9	168.5	193.4	203.5	212.2
NCI	1,081.5	1,177.9	1,210.3	1,402.8	1,468.4	1,570.3	1,644.3	1,712.7	1,947.6	1,978.3
NICHD	275.6	312.6	308.2	366.7	396.6	425.3	442.0	478.9	518.6	527.8
NIDCD	—	—	—	—	—	94.3	117.3	135.0	148.7	154.7
NIDR	88.4	100.4	98.8	117.9	126.2	130.7	135.4	148.7	158.9	161.1
NIDDK	—	—	436.0	510.9	534.4	559.3	580.0	615.3	661.4	680.5
NIDA	71.1	81.1	83.3	139.3	156.3	228.1	329.6	383.7	399.1	403.1
NIEHS	180.4	194.5	188.8	209.3	215.4	223.3	228.7	240.6	251.5	251.0
NEI	155.0	181.3	186.3	216.5	224.8	231.0	236.5	253.4	269.8	275.4
NIGMS	415.9	481.0	493.5	570.9	627.5	682.1	680.3	761.2	814.3	832.2
NHLBI	705.1	803.8	821.9	930.0	965.3	1,045.5	1,070.7	1,125.9	1,190.1	1,214.7
NIMH	208.3	232.7	242.1	287.8	327.5	384.9	440.2	512.0	560.3	582.9
NINCDS	336.0	396.2	414.4	490.1	534.5	—	—	—	—	—
NINDS	—	—	—	—	—	471.6	489.3	542.3	580.8	599.5
DRR/NCRR	243.0	303.6	292.4	322.8	344.1	381.9	353.8	335.8	314.2	312.6
FIC	11.2	11.6	10.9	11.4	15.6	15.7	15.5	17.5	19.6	19.7
NCHGR	—	—	—	—	—	—	59.5	87.4	104.8	106.1
NCNR/NINR	—	—	16.2	19.9	23.4	29.1	33.5	39.9	44.9	48.5
NLM	50.6	55.2	55.2	61.7	67.7	78.8	81.7	91.2	102.9	103.5
OD	27.0	35.4	114.7	56.9	66.9	74.4	111.7	98.2	143.5	191.9
Buildings and facilities	25.6	15.7	19.9	25.8	19.0	24.4	67.4	57.1	61.4	112.7

^a FY 1984=100. Constant dollars are based on the Biomedical R&D Price Index (see inside back cover).

Source: Office of Financial Management
(Continued)

Table 8 (Cont.)

**NIH Obligations by NIH Component,
Fiscal Years 1984–1993 in Current and Constant Dollars**

(Dollars in Millions)

NIH component	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
<i>CONSTANT DOLLARS ^a</i>										
Total	\$4,827.8	\$5,225.4	\$5,185.5	\$5,788.4	\$5,925.1	\$6,186.0	\$6,318.8	\$6,528.5	\$6,768.2	\$6,732.8
NIA	115.2	135.9	137.6	153.7	160.3	174.4	177.5	229.3	258.9	260.4
NIAAA	54.8	58.7	60.5	72.2	76.5	94.1	110.8	112.0	116.0	114.8
NIAID	319.6	351.7	334.6	472.2	526.4	580.1	617.5	641.6	649.1	641.5
NIADDK	463.7	512.8	—	—	—	—	—	—	—	—
NIAMS	—	—	101.5	120.1	121.6	125.3	125.2	137.0	137.6	138.3
NCI	1,081.5	1,119.7	1,103.3	1,214.5	1,210.6	1,230.6	1,221.6	1,213.0	1,316.8	1,289.7
NICHD	275.6	297.1	280.9	317.5	327.0	333.3	328.4	339.2	350.6	344.1
NIDCD	—	—	—	—	—	73.9	87.1	95.6	100.6	100.8
NIDR	88.4	95.4	90.1	102.1	104.0	102.4	100.6	105.3	107.4	105.0
NIDDK	—	—	397.4	442.3	440.6	438.3	430.9	435.8	447.2	443.6
NIDA	71.1	77.1	75.9	120.6	128.9	178.8	244.9	271.7	269.8	262.8
NIEHS	180.4	184.9	172.1	181.2	177.6	175.0	169.9	170.4	170.0	163.7
NEI	155.0	172.3	169.8	187.4	185.3	181.0	175.7	179.5	182.4	179.5
NIGMS	415.9	457.2	449.9	494.3	517.3	534.6	505.4	539.1	550.6	542.5
NHLBI	705.1	764.1	749.2	805.2	795.8	819.4	795.5	797.4	804.6	791.8
NIMH	208.3	221.2	220.7	249.2	270.0	301.6	327.0	362.6	378.8	380.0
NINCDS	336.0	376.6	377.8	424.3	440.6	—	—	—	—	—
NINDS	—	—	—	—	—	369.6	363.5	384.1	392.7	390.8
DRR/NCRR	243.0	288.6	266.5	279.5	283.7	299.3	262.9	237.8	212.4	203.8
FIC	11.2	11.0	9.9	9.9	12.9	12.3	11.5	12.4	13.2	12.8
NCHGR	—	—	—	—	—	—	44.2	61.9	70.9	69.2
NCNR/NINR	—	—	14.8	17.2	19.3	22.8	24.9	28.3	30.4	31.6
NLM	50.6	52.5	50.3	53.4	55.8	61.8	60.7	64.6	69.6	67.5
OD	27.0	33.7	104.6	49.3	55.2	58.3	83.0	69.5	97.1	125.1
Buildings and facilities	25.6	14.9	18.1	22.3	15.7	19.1	50.1	40.4	41.5	73.5

See footnote on first page of table.

Table 9

**NIH Obligations by NIH Component, Program Activity,
and Function/Mechanism, Fiscal Year 1993**

(Dollars in Thousands)

NIH component and program activity	Total	Research grants			R&D contracts	Research training		Direct activities		Other obligations
		Project	Center	Other		Indiv.	Inst.	Intramural research	Research mgt. & support	
Total NIH	\$10,328,117	\$5,657,630	\$903,204	\$575,777	\$693,509	\$55,913	\$298,984^a	\$1,185,248	\$542,063	\$415,789
NIA	399,523	240,890	51,058	12,612	21,255	844	10,783	38,991	23,090	-
Aging	337,442	240,890	51,058	12,612	21,255	844	10,783	-	-	-
Intramural research	38,991	-	-	-	-	-	-	38,991	-	-
Research mgt. and support	23,090	-	-	-	-	-	-	-	23,090	-
NIAAA	176,128	96,614	17,342	17,211	7,057	391	3,223	21,086	13,204	-
Alcohol biomedical and behavioral research	141,838	96,614	17,342	17,211	7,057	391	3,223	-	-	-
Intramural research	21,086	-	-	-	-	-	-	21,086	-	-
Research mgt. and support	13,204	-	-	-	-	-	-	-	13,204	-
NIAID	984,114	637,593	9,982	15,929	122,372	3,607	18,550	123,404	52,677	-
Allergy, immunology, and transplantation	191,345	174,565	-	3,788	4,242	1,578	7,172	-	-	-
Microbiology and infectious diseases	616,688	463,028	9,982	12,141	118,130	2,029	11,378	-	-	-
Intramural research	123,404	-	-	-	-	-	-	123,404	-	-
Research mgt. and support	52,677	-	-	-	-	-	-	-	52,677	-
NIAMS	212,208	143,544	23,436	7,574	3,332	1,097	5,512	17,649	10,064	-
Arthritis, musculoskeletal, and skin diseases	184,495	143,544	23,436	7,574	3,332	1,097	5,512	-	-	-
Intramural research	17,649	-	-	-	-	-	-	17,649	-	-
Research mgt. and support	10,064	-	-	-	-	-	-	-	10,064	-
NCI	1,978,340	916,310	145,395	108,471	198,858	4,353	32,932	363,525	95,675	112,821
Research	1,647,604	916,310	-	86,611	198,858	-	-	363,525	82,300	-
Cancer causation	537,981	346,591	-	3,731	78,691	-	-	83,370	25,598	-
Detection and diagnosis	144,187	91,709	-	88	17,087	-	-	27,192	8,111	-
Treatment	639,025	258,898	-	76,401	89,987	-	-	182,181	31,558	-
Cancer biology	326,411	219,112	-	6,391	13,093	-	-	70,782	17,033	-

^a NLM does not use NRSAs to support training.

Source: Office of Financial Management
(Continued)

Table 9 (Cont.)

**NIH Obligations by NIH Component, Program Activity,
and Function/Mechanism, Fiscal Year 1993**

(Dollars in Thousands)

NIH component and program activity	Total	Research grants			R&D contracts	Research training		Direct activities		Other obligations
		Project	Center	Other		Indiv.	Inst.	Intramural research	Research mgt. & support	
NCI (cont.)										
Resource development	\$218,157	—	\$145,395	\$21,860	—	\$4,353	\$32,932	—	\$6,089	\$7,528
Cancer centers	147,412	—	145,395	—	—	—	—	—	2,017	—
Research manpower development	62,899	—	—	21,860	—	4,353	32,932	—	3,754	—
Construction	7,846	—	—	—	—	—	—	—	318	7,528
Cancer prevention & control	112,579	—	—	—	—	—	—	—	7,286	105,293
NICHD	527,767	\$282,183	48,318	32,253	\$48,247	3,471	13,833	\$71,853	27,609	—
Research for mothers and children	281,983	186,663	25,095	27,373	32,251	2,221	8,380	—	—	—
Population research	136,327	87,713	23,223	4,674	15,536	1,250	3,931	—	—	—
Medical rehabilitation research	9,995	7,807	—	206	460	—	1,522	—	—	—
Intramural research	71,853	—	—	—	—	—	—	71,853	—	—
Research mgt. and support	27,609	—	—	—	—	—	—	—	27,609	—
NIDCD	154,655	106,032	16,460	7,011	3,855	865	3,969	9,223	7,240	—
Deafness and other com- munication disorders	138,192	106,032	16,460	7,011	3,855	865	3,969	—	—	—
Intramural research	9,223	—	—	—	—	—	—	9,223	—	—
Research mgt. and support	7,240	—	—	—	—	—	—	—	7,240	—
NIDR	161,116	77,804	17,975	12,098	4,741	643	5,217	32,394	10,244	—
Oral disorders and diseases research	118,478	77,804	17,975	12,098	4,741	643	5,217	—	—	—
Intramural research	32,394	—	—	—	—	—	—	32,394	—	—
Research mgt. and support	10,244	—	—	—	—	—	—	—	10,244	—

See footnote on first page of table.

(Continued)

Table 9 (Cont.)

**NIH Obligations by NIH Component, Program Activity,
and Function/Mechanism, Fiscal Year 1993**

(Dollars in Thousands)

NIH component and program activity	Total	Research grants			R&D contracts	Research training		Direct activities		Other obligations
		Project	Center	Other		Indiv.	Inst.	Intramural research	Research mgt. & support	
NIDDK	\$680,514	\$463,204	\$45,975	\$19,235	\$19,148	\$4,437	\$20,987	\$83,476	\$24,052	-
Diabetes, endocrinology, and metabolism	278,088	225,664	21,457	11,427	7,820	2,226	9,494	-	-	-
Digestive diseases and nutrition	139,556	106,984	15,765	3,784	5,919	1,107	5,997	-	-	-
Kidney disease, urology, and hematology	155,342	130,556	8,753	4,024	5,409	1,104	5,496	-	-	-
Intramural research	83,476	-	-	-	-	-	-	83,476	-	-
Research mgt. and support	24,052	-	-	-	-	-	-	-	24,052	-
NIDA	403,065	193,192	25,929	74,087	48,408	1,257	6,113	23,978	30,101	-
Extramural research	348,986	193,192	25,929	74,087	48,408	1,257	6,113	-	-	-
Intramural research	23,978	-	-	-	-	-	-	23,978	-	-
Research mgt. and support	30,101	-	-	-	-	-	-	-	30,101	-
NIEHS	251,047	84,104	17,167	3,618	52,963	1,243	9,576	73,238	9,138	-
Biological response to environmental health hazards	75,154	71,536	-	3,618	-	-	-	-	-	-
Applied toxicological research and testing	56,588	7,068	-	-	49,520	-	-	-	-	-
Biometry and risk estimation	8,943	5,500	-	-	3,443	-	-	-	-	-
Resource and manpower development	27,986	-	17,167	-	-	1,243	9,576	-	-	-
Intramural research	73,238	-	-	-	-	-	-	73,238	-	-
Research mgt. and support	9,138	-	-	-	-	-	-	-	9,138	-
NEI	275,368	186,504	7,639	28,592	5,043	2,681	4,545	28,973	11,391	-
Retinal and choroidal diseases	235,004	186,504	7,639	28,592	5,043	2,681	4,545	-	-	-
Intramural research	28,973	-	-	-	-	-	-	28,973	-	-
Research mgt. and support	11,391	-	-	-	-	-	-	-	11,391	-

See footnote on first page of table.

(Continued)

Table 9 (Cont.)

**NIH Obligations by NIH Component, Program Activity,
and Function/Mechanism, Fiscal Year 1993**

(Dollars in Thousands)

NIH component and program activity	Total	Research grants			R&D contracts	Research training		Direct activities		Other obligations
		Project	Center	Other		Indiv.	Inst.	Intramural research	Research mgt. & support	
NIGMS	\$832,191	\$665,006	\$7,734	\$37,339	\$2,118	\$13,609	\$79,806	\$1,176	\$25,403	-
Cellular and molecular basis of disease	230,792	212,966	-	454	-	2,223	15,149	-	-	-
Genetics	227,480	213,206	-	536	1,484	3,807	8,447	-	-	-
Pharmacological sciences	123,403	102,411	2,798	1,069	11	2,264	14,850	-	-	-
Biophysics and physiological sciences	176,183	136,423	4,936	2,402	596	1,790	30,036	-	-	-
Minority opportunities in research	47,754	-	-	32,878	27	3,525	11,324	-	-	-
Minority biomedical research support	32,795	-	-	32,795	-	-	-	-	-	-
Minority access to research careers	13,103	-	-	-	-	1,779	11,324	-	-	-
Special minority initiatives	1,856	-	-	83	27	1,746	-	-	-	-
Intramural research	1,176	-	-	-	-	-	-	1,176	-	-
Research mgt. and support	25,403	-	-	-	-	-	-	-	25,403	-
NHLBI	1,214,693	752,978	96,628	45,654	117,549	6,175	38,101	98,162	59,446	-
Heart and vascular diseases	631,977	476,303	41,155	22,979	66,717	3,901	20,922	-	-	-
Lung diseases	221,561	148,588	29,481	12,932	18,552	1,083	10,925	-	-	-
Blood diseases and resources	203,547	128,087	25,992	9,743	32,280	1,191	6,254	-	-	-
Intramural research	98,162	-	-	-	-	-	-	98,162	-	-
Research mgt. and support	59,446	-	-	-	-	-	-	-	59,446	-
NIMH	582,851	284,717	64,898	56,672	16,517	4,552	24,293	95,321	35,881	-
Extramural research	451,649	284,717	64,898	56,672	16,517	4,552	24,293	-	-	-
Intramural research	95,321	-	-	-	-	-	-	95,321	-	-
Research mgt. and support	35,881	-	-	-	-	-	-	-	35,881	-

See footnote on first page of table.

(Continued)

Table 9 (Cont.)

**NIH Obligations by NIH Component, Program Activity,
and Function/Mechanism, Fiscal Year 1993**

(Dollars in Thousands)

NIH component and program activity	Total	Research grants			R&D contracts	Research training		Direct activities		Other obligations
		Project	Center	Other		Indiv.	Inst.	Intramural research	Research mgt. & support	
NINDS	\$599,466	\$415,795	\$31,203	\$18,525	\$16,571	\$4,300	\$9,045	\$77,475	\$26,552	-
Biological basis research	296,024	269,212	-	8,627	8,436	3,952	5,797	-	-	-
Clinical research	199,415	146,583	31,203	9,898	8,135	348	3,248	-	-	-
Intramural research	77,475	-	-	-	-	-	-	77,475	-	-
Research mgt. and support	26,552	-	-	-	-	-	-	-	26,552	-
NINR	48,477	34,496	1,763	2,208	80	1,655	2,498	1,026	4,751	-
Nursing research	42,700	34,496	1,763	2,208	80	1,655	2,498	-	-	-
Intramural research	1,026	-	-	-	-	-	-	1,026	-	-
Research mgt. and support	4,751	-	-	-	-	-	-	-	4,751	-
FIC	19,702	-	-	12,603	-	-	-	-	7,099	-
International research activities	19,702	-	-	12,603	-	-	-	-	7,099	-
NCHGR	106,095	60,099	31,677	4,266	517	643	3,315	-	5,578	-
Human genome research	100,517	60,099	31,677	4,266	517	643	3,315	-	-	-
Research mgt. and support	5,578	-	-	-	-	-	-	-	5,578	-
NCRR	312,635	16,565	242,625	31,879	4,878	90	2,593	-	14,005	-
Clinical research	125,721	455	124,554	502	210	-	-	-	-	-
Biomedical research technology	50,093	5,140	39,492	2,254	3,190	17	-	-	-	-
Comparative medicine	72,279	5,956	53,236	10,185	236	73	2,593	-	-	-
Biological models and materials research	8,913	5,014	1,981	676	1,242	-	-	-	-	-
Biomedical research support	18,262	-	-	18,262	-	-	-	-	-	-
Research centers in minority institutions	23,362	-	23,362	-	-	-	-	-	-	-
Research mgt. and support	14,005	-	-	-	-	-	-	-	14,005	-

See footnote on first page of table.

(Continued)

Table 9 (Cont.)

**NIH Obligations by NIH Component, Program Activity,
and Function/Mechanism, Fiscal Year 1993**

(Dollars in Thousands)

NIH component and program activity	Total	Research grants			R&D contracts	Research training		Direct activities		Other obligations
		Project	Center	Other		Indiv.	Inst.	Intramural research	Research mgt. & support	
NLM	\$103,496	—	—	\$15,079	—	—	\$4,093*	\$24,298	\$8,038	\$51,988
Medical library assistance	15,091	—	—	3,725	—	—	4,093*	—	—	7,273
Medical informatics	11,458	—	—	11,354	—	—	—	—	—	104
Intramural activities	68,909	—	—	—	—	—	—	24,298	—	44,611
Research mgt. and support	8,038	—	—	—	—	—	—	—	8,038	—
OD	191,935	—	—	12,861	—	—	—	—	40,825	138,249
Diagnostic radiological research	1,908	—	—	—	—	—	—	—	—	1,908
Science education	1,747	—	—	—	—	—	—	—	—	1,747
Academic research enhancement awards	12,861	—	—	12,861	—	—	—	—	—	—
Office of minority health research	9,037	—	—	—	—	—	—	—	—	9,037
Office of research on women's health	9,425	—	—	—	—	—	—	—	—	9,425
AIDS — ORWH	792	—	—	—	—	—	—	—	—	792
AIDS research	13,965	—	—	—	—	—	—	—	—	13,965
Director's discretionary fund	10,329	—	—	—	—	—	—	—	—	10,329
Women's health initiative	43,356	—	—	—	—	—	—	—	—	43,356
Minority health initiative	40,768	—	—	—	—	—	—	—	—	40,768
Office of alternative medicine	1,973	—	—	—	—	—	—	—	—	1,973
Extramural construction	4,949	—	—	—	—	—	—	—	—	4,949
Research mgt. and support	40,825	—	—	—	—	—	—	—	40,825	—
Buildings and facilities	112,731	—	—	—	—	—	—	—	—	112,731

See footnote on first page of table.

Table 10

**NIH Obligations by Function/Mechanism,
Fiscal Years 1984–1993**

(Dollars in Thousands)

Function/ mechanism	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Total	\$4,827,757	\$5,497,098	\$5,688,749	\$6,685,506	\$7,186,959	\$7,893,586	\$8,505,256	\$9,217,940	\$10,010,368	\$10,328,117
Grants & contracts	3,855,538	4,478,294	4,601,812	5,502,566	5,904,441	6,476,717	6,863,179	7,487,974	8,085,955	8,265,805
Research grants	3,254,538	3,779,672	3,939,870	4,665,566	5,039,370	5,504,761	5,822,041	6,388,277	6,912,547	7,108,671
R&D contracts	351,708	383,263	358,258	503,586	532,448	583,496	630,487	664,698	705,821	350,804
Research training	183,799	238,465	232,873	256,407	262,941	283,015	318,896	342,260	348,018	693,509
Cancer control	63,282	63,794	61,372	67,457	69,682	74,100	75,433	85,390	107,569	105,293
Construction	2,211	13,100	9,439	9,550	–	31,345	16,322	7,349	12,000	7,528
Direct activities	869,038	912,549	897,086	1,038,562	1,128,914	1,239,284	1,381,229	1,483,540	1,616,493	1,654,150
Intramural research	604,568	639,451	640,177	748,637	816,306	882,417	975,871	1,048,834	1,145,926	1,160,950
Research management and support ^a	264,470	273,098	256,909	289,925	312,608	356,867	405,358	434,706	470,567	493,200
NLM	50,624	55,184	55,206	61,675	67,700	78,798	81,683	91,182	102,937	103,496
OD	26,976	35,396	114,712	56,917	66,875	74,371	111,729	98,153	143,542	191,935
Buildings and facilities	25,581	15,675	19,933	25,786	19,029	24,416	67,436	57,091	61,441	112,731

^a Management of extramural programs, ODs of ICDs, and some management costs applicable to overall operations.

Source: Office of Financial Management

Table 11

**NIH Obligations for International Programs
by Activity and NIH Component, Fiscal Year 1993**

(Thousands of Dollars)

NIH component	Total	Research grants			Contracts		Training awards			Inter-national travel	ICD program support
		Foreign grants & cooperative agreements	Foreign components of domestic grants	Special foreign currency grants ^a	Foreign contracts	Foreign components of domestic contracts	Foreign scientists in U.S.	U.S. scientists abroad	Bilateral exchanges		
Total	\$172,987	\$35,928	\$21,285	\$1,493	\$16,715	\$2,219	\$75,672	\$1,766	\$5,139	\$2,642	\$10,128
NIA	5,927	1,012	2,385	65	—	238	1,926	—	85	95	121
NIAAA	3,169	1,154	76	203	—	—	1,272	—	256	43	165
NIAID	23,611	4,037	4,464	12	7,240	494	6,374	—	—	511	479
NIAMS	2,418	432	296	—	175	—	1,333	—	108	45	29
NCI	33,818	7,119	2,843	480	2,711	1,266	16,731	154	1,554	523	437
NICHD	11,912	965	1,715	—	3,089	95	5,079	84	488	207	190
NIDCD	1,252	259	258	—	—	—	689	23	—	18	5
NIDR	3,831	522	435	—	14	—	2,781	—	—	51	28
NIDDK	11,112	2,634	890	—	—	—	7,162	28	125	122	151
NIDA	4,416	1,290	248	—	553	—	979	12	984	105	245
NIEHS	6,298	712	500	117	1,764	—	2,608	—	261	156	180
NEI	4,678	1,739	227	—	—	—	2,299	23	93	102	195
NIGMS	2,537	1,905	322	188	—	—	—	117	—	5	—
NHLBI	12,678	2,868	1,851	142	921	—	5,711	59	471	116	539
NIMH	6,943	2,706	291	23	82	—	3,579	9	—	128	125
NINDS	13,298	6,223	1,259	220	166	42	5,112	38	96	142	—
NINR	9	—	—	—	—	—	—	—	—	9	—
FIC	19,702	—	2,008	—	—	—	9,541	1,054	224	62	6,813
NCHGR	960	—	539	—	—	—	24	40	341	16	—
NCRR	1,583	351	560	—	—	30	445	—	28	40	129
NLM	727	—	—	43	—	—	478	—	—	43	163
CC, DCRT, DRG, & OD	2,108	—	118	—	—	54	1,549	125	25	103	134

^a Special foreign currency funds (P.L. 480) are appropriated at the Office of the Assistant Secretary for Health, DHHS, and awarded and administered by NIH.

Source: Fogarty International Center

Table 12

**NIH Obligations for Prevention Research
by NIH Component, Fiscal Years 1984–1993**

(Thousands of Dollars)

NIH component	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Total	\$1,075,712	\$1,180,370	\$1,233,385	\$1,492,612	\$1,591,892	\$1,707,232	\$1,776,026	\$2,033,495	\$2,228,155	\$2,527,983
NIA	60,213	84,834	85,595	104,957	118,477	131,996	145,147	186,827	208,108	216,850
NIAAA	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	32,595
NIAID	50,296	57,068	60,764	93,406	111,189	134,167	129,341	181,672	211,896	232,925
NIADDK	117,289	127,449	—	—	—	—	—	—	—	—
NIAMS	—	—	38,289	65,329	63,935	72,167	74,680	74,125	65,466	66,357
NCI ^a	312,853	345,304	367,846	414,515	448,675	481,687	536,715	597,748	660,022	663,560
NICHD	106,514	118,957	117,865	145,683	165,681	181,895	179,747	196,905	212,600	216,200
NIDCD	—	—	—	—	—	18,879	11,463	14,141	15,584	19,802
NIDR	18,995	19,183	23,025	25,411	26,992	27,937	28,942	32,583	36,659	34,075
NIDDK	—	—	98,544	115,000	118,800	124,200	127,500	133,000	142,200	146,300
NIDA	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	56,800
NIHES	152,508	163,123	158,388	174,923	180,411	187,184	189,452	199,439	207,877	206,246
NEI	40,753	39,282	41,461	55,295	48,468	48,648	47,805	46,204	44,818	63,900
NIGMS	2,675	2,930	4,258	4,240	4,599	3,962	4,100	5,403	5,153	5,329
NHLBI	137,400	145,532	145,636	173,051	177,206	179,510	184,000	191,780	205,894	214,419
NIMH	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	80,127
NINCDS	40,055	38,395	38,128	57,722	70,439	—	—	—	—	—
NINDS	—	—	—	—	—	49,228	50,803	53,343	55,209	56,988
DRR/NCRR	30,671	33,052	47,346	54,597	51,741	60,325	53,234	106,608	100,813	102,543
FIC	5,490	5,261	4,066	3,164	—	—	2,220	2,920	3,038	4,781
NCHGR	—	—	—	—	—	—	—	—	—	24,854
NCNR/NINR	—	—	2,174	5,319	5,279	5,447	9,489	9,278	10,096	13,642
NLM ^b	—	—	—	—	—	—	1,388	1,405	21,073	25,964
OD ^c	—	—	—	—	—	—	—	114	21,649	43,726

^a Total NCI prevention research funding. Primary prevention (which excludes biological carcinogenesis and some chemical and physical carcinogenesis research) is \$260 million in FY 1990, \$293 million in FY 1991, \$318 million in FY 1992, and \$323 million in FY 1993.

^b Beginning in 1992, reflects categorization of additional programs under prevention research.

^c Beginning in 1992, includes contract funding for the Women's Health Initiative.

Source: Division of Disease Prevention, ODP, OD

Table 13

**NIH Obligations for Nutrition Research and Training
by NIH Component, Fiscal Years 1984–1993**

(Thousands of Dollars)

NIH component	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Total	\$192,918	\$207,316	\$212,978	\$260,611	\$276,195	\$286,975	\$292,359	\$310,810	\$343,787	\$373,251
NIA	4,757	4,608	5,329	6,934	7,625	8,494	10,070	15,693	19,163	18,595
NIAID	1,646	1,679	1,830	2,652	3,493	3,797	4,104	4,421	5,153	6,322
NIAAA	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	4,303
NIADDK	35,969	45,951	—	—	—	—	—	—	—	—
NIAMS	—	—	2,846	3,424	4,068	4,128	4,362	4,844	5,152	5,426
NCI	50,119	45,199	46,223	52,691	59,563	64,524	66,987	74,777	83,651	94,326
NICHD	24,152	26,835	27,662	32,932	34,384	31,247	28,857	31,702	32,882	33,118
NIDCD	—	—	—	—	—	1,174	1,974	2,113	2,405	2,375
NIDR	1,419	1,795	1,211	1,836	1,486	1,571	1,787	2,358	3,392	3,550
NIDDK	—	—	44,697	54,737	60,156	63,955	67,526	70,195	74,844	72,714
NIDA	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	3,028
NIEHS	1,768	5,366	4,470	12,880	9,914	10,261	8,641	4,138	4,035	4,671
NEI	4,611	5,519	5,176	6,545	6,879	6,128	8,957	11,650	15,008	15,538
NIGMS	2,271	2,307	2,291	2,710	2,529	1,953	2,285	2,507	2,677	2,465
NHLBI	44,553	45,689	49,265	57,285	60,314	64,287	61,834	58,017	65,070	67,879
NIMH	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	10,592
NINCDS	2,652	2,949	2,158	3,367	3,221	—	—	—	—	—
NINDS	—	—	—	—	—	1,095	1,143	1,866	1,873	1,826
DRR/NCRR	18,874	19,400	19,472	22,089	22,106	23,811	23,052	25,317	24,989	23,524
FIC	127	19	56	57	30	92	118	82	56	10
NCNR/NINR	—	—	292	472	427	459	665	1,129	3,437	2,988

Source: Division of Nutrition Research Coordination

Table 14

**Obligations for HIV and AIDS^a
by NIH and Other PHS Components,
Fiscal Years 1984–1994**

(Dollars in Thousands)

Component	1984	1985	1986 ^b	1987	1988	1989	1990	1991	1992	1993	1994
PHS, total	\$61,460	\$108,618	\$233,812	\$502,455	\$924,321	\$1,325,771	\$1,584,732	\$1,873,158	\$1,962,267	\$2,078,862	\$2,569,356
NIH, total	44,121	63,737	134,667	260,907	430,570	627,101	740,509	799,821	840,210	1,073,957	1,299,145
NIA	–	–	–	184	361	443	859	985	1,072	1,153	1,686
NIAAA ^c	–	–	–	–	–	–	–	–	–	6,778	9,456
NIAID	19,616	23,273	63,276	145,760	223,298	311,277	393,083	430,940	448,940	459,698	542,912
NIAMS	–	–	–	100	561	673	1,238	1,633	1,694	1,760	1,501
NCI	16,627	26,874	45,050	63,755	89,944	122,247	150,304	160,869	165,668	173,029	213,017
NICHD	–	–	1,400	4,762	17,153	22,437	26,749	32,609	34,729	38,807	56,426
NIDCD	–	–	–	–	–	–	–	495	483	618	849
NIDR	81	97	1,712	3,247	3,850	3,920	4,662	6,214	8,154	8,375	12,185
NIDDK	–	–	–	495	3,330	3,557	5,306	6,290	7,172	6,446	10,437
NIDA ^c	–	–	–	–	–	–	–	–	–	126,023	143,197
NIEHS	–	–	–	216	3,896	4,138	4,258	4,514	4,216	4,264	5,602
NEI	60	200	96	253	3,830	4,828	5,533	5,680	5,902	6,283	8,381
NIGMS	–	–	–	5,420	7,724	10,830	14,614	15,588	16,100	16,850	23,943
NHLBI	4,871	9,323	15,468	17,244	24,885	38,088	42,056	46,406	46,206	48,058	54,977
NIMH ^c	–	–	–	–	–	–	–	–	–	78,433	87,182
NINCDS	1,510	1,168	1,435	3,685	12,342	–	–	–	–	–	–
NINDS	–	–	–	–	–	13,069	16,158	16,651	17,592	18,416	22,113

^a See Tables 48 and 50 for number of AIDS cases and deaths.

^b Includes reimbursements where applicable (funds appropriated to OD but transferred to Institutes to be awarded and administered).

^c In FY 1993 the three research institutes of ADAMHA were transferred to NIH, and ADAMHA was renamed the Substance Abuse and Mental Health Services Administration (SAMHSA).

^d In FY 1993 NCNR was made an institute and renamed NINR.

Source: Office of Financial Management
(Continued)

Table 14 (Cont.)

**Obligations for HIV and AIDS^a
by NIH and Other PHS Components,
Fiscal Years 1984–1994**

(Dollars in Thousands)

Component	1984	1985	1986 ^b	1987	1988	1989	1990	1991	1992	1993	1994
NIH (cont.)											
DRR/NCRR	\$1,356	\$2,802	\$6,157	\$11,027	\$28,283	\$67,616	\$46,147	\$47,429	\$50,051	\$50,881	\$61,383
FIC	—	—	—	—	4,505	4,619	4,898	5,351	5,593	5,684	8,852
NCHGR	—	—	—	—	—	—	—	—	—	—	637
NCNR/NINR ^d	—	—	—	—	602	702	987	2,545	2,710	2,966	4,229
NLN	—	—	—	—	—	20	493	519	1,057	1,101	2,782
OD	—	—	73	4,759	5,636	12,865	10,284	11,737	15,113	14,581	24,392
Buildings and facilities	—	—	—	—	370	5,772	12,880	3,366	7,758	3,753	3,006
ADAMHA/SAMHSA,^c											
total	2,791	2,578	12,155	47,504	112,257	173,336	213,814	234,501	235,424	25,655	27,320
NIAAA	—	—	—	2,370	4,793	6,130	7,980	7,996	7,990	—	—
NIDA	1,586	678	6,929	20,230	33,848	60,824	92,635	122,688	125,269	—	—
NIMH	1,205	1,802	5,060	10,470	31,188	48,373	63,331	72,720	76,140	—	—
Other ADAMHA	—	98	166	14,434	42,428	58,009	49,868	31,097	26,025	—	—
Other PHS, total	14,548	42,303	86,990	194,044	381,494	525,334	630,409	838,836	886,633	979,250	1,242,891
CDC	13,750	33,298	62,152	136,007	304,942	377,592	442,812	496,951	479,620	498,253	543,253
FDA	798	9,005	9,527	15,774	34,517	73,775	57,428	63,395	72,302	72,399	72,399
HRSA	—	—	15,311	11,900	36,956	59,932	112,467	261,116	316,612	390,341	607,796
IHS	—	—	—	—	—	800	2,670	1,803	3,170	3,303	3,556
OASH	—	—	—	30,363	4,046	6,405	6,562	5,334	4,794	5,330	5,263
AHCPR	—	—	—	—	1,033	6,830	8,470	10,237	10,135	9,624	10,624

See footnotes on first page of table.

Table 15

NIH Obligations for HIV and AIDS^a by NIH Component and Functional Category, Fiscal Year 1994

(Dollars in Thousands)

NIH component	Total	Basic science research						Risk assessment and prevention			Clin. health services research and delivery	PHS-wide activities
		Biomedical research	Neuroscience & neuro-psychiatric research	Behavioral research	Therapeutic agents	Vaccines	Research training & extramural construct.	Surveillance	Population-based research	Information & education/preventive services	Research	Construction
Total	\$1,299,145	\$292,682	\$48,440	\$157,237	\$464,423	\$119,543	\$23,608	\$3,847	\$173,836	\$8,397	\$4,126	\$3,006
NIA	1,686	941	-	745	-	-	-	-	-	-	-	-
NIAAA	9,456	5,440	569	1,951	-	-	63	325	799	309	-	-
NIAID	542,912	114,480	2,175	3,381	263,041	81,919	5,700	-	70,533	1,683	-	-
NIAMS	1,501	903	-	-	598	-	-	-	-	-	-	-
NCI	213,017	63,482	-	-	115,506	14,424	-	578	19,027	-	-	-
NICHD	56,426	6,296	43	8,039	24,912	-	132	-	17,004	-	-	-
NIDCD	849	849	-	-	-	-	-	-	-	-	-	-
NIDR	12,185	7,348	270	-	1,344	536	-	204	2,082	401	-	-
NIDDK	10,437	2,128	-	-	670	-	-	-	7,408	231	-	-
NIDA	143,197	13,383	4,717	107,218	-	-	1,561	2,740	11,843	1,735	-	-
NIEHS	5,602	766	-	-	4,836	-	-	-	-	-	-	-
NEI	8,381	2,214	-	-	6,167	-	-	-	-	-	-	-
NIGMS	23,943	15,791	-	-	-	-	8,152	-	-	-	-	-
NHLBI	54,977	23,896	-	61	5,881	278	992	-	23,128	741	-	-
NIMH	87,182	15,114	18,382	29,982	4,404	-	3,853	-	11,922	-	3,525	-
NINDS	22,113	-	20,329	-	1,784	-	-	-	-	-	-	-
NINR	4,229	1,314	-	1,675	-	-	84	-	555	-	601	-
FIC	8,852	-	-	-	-	6,816	2,036	-	-	-	-	-
NCHGR	637	-	-	-	637	-	-	-	-	-	-	-
NCRR	61,383	14,694	1,795	1,006	24,461	13,053	34	-	6,193	147	-	-
NLM	2,782	-	-	-	-	-	-	-	-	2,782	-	-
OD	24,392	3,643	160	3,179	10,182	2,517	1,001	-	3,342	368	-	-
B&F	3,006	-	-	-	-	-	-	-	-	-	-	3,006

^a See Tables 48 and 50 for numbers of AIDS cases and deaths.

Source: Office of Financial Management

Table 16

**NIH Obligations for Biotechnology^a Research
by NIH Component, Fiscal Years 1985–1993**

(Dollars in Thousands)

NIH component	1985	1986	1987	1988	1989	1990	1991 ^a	1992	1993
Total	\$1,905,182	\$1,950,194	\$2,275,951	\$2,497,112	\$2,805,234	\$2,970,992	\$3,318,324	\$3,067,160	\$4,233,040
NIA	13,912	14,775	20,328	20,222	22,017	22,373	12,633	13,000	43,332
NIAAA	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	22,866
NIAID	224,828	229,300	297,003	354,879	406,415	448,122	463,625	199,843	529,876
NIADDK	260,148	–	–	–	–	–	–	–	–
NIAMS	–	52,697	48,903	45,839	48,972	47,187	13,312	13,938	28,229
NCI	561,325	559,281	645,588	685,185	800,367	841,221	945,206	1,199,440	1,315,857
NICHD	123,673	122,837	161,215	166,439	182,744	206,885	227,422	106,846	244,867
NIDCD	–	–	–	–	26,191	33,828	5,383	10,133	10,942
NIDR	20,802	21,579	22,003	22,359	19,931	21,027	35,522	37,384	37,551
NIDDK	–	210,400	246,660	257,300	269,482	280,078	298,000	124,100	329,300
NIDA	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	17,500
NIHES	13,438	13,714	14,556	15,046	15,573	22,185	24,248	27,373	37,556
NEI	35,225	33,780	37,695	41,491	53,941	63,701	91,932	104,525	132,390
NIGMS	282,169	308,775	356,100	391,406	405,426	419,672	634,654	690,839	724,044
NHLBI	145,215	150,226	169,980	183,930	203,156	216,360	110,006	230,059	239,163
NIMH	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	42,305
NINCDS	142,413	149,758	158,989	203,667	–	–	–	–	–
NINDS	–	–	–	–	176,043	176,698	192,084	37,709	209,842
DRR/NCRR	82,034	82,972	96,181	105,519	139,611	105,383	169,893	156,450	152,938
FIC	–	–	–	–	–	–	340	360	362
NCHGR	–	–	–	–	27,546	56,725	83,681	99,836	100,517
NLM	–	100	750	3,830	7,819	9,547	10,383	15,325	13,603

^a See Definitions. Beginning in 1991, data are based on a revised biotechnology definition developed by the Federal Coordinating Council for Science, Engineering, and Technology (FCCSET).

Source: Office of Financial Management

Table 17

**NIH Obligations for Clinical Trials by NIH Component,
Fiscal Years 1984–1993**

(Dollars in Thousands)

NIH component	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Total	\$249,321	\$310,921	\$336,387	\$444,375	\$508,251	\$518,852	\$609,738	\$745,182	\$863,692	\$1,024,718
NIA	1,000	5,395	4,943	4,701	4,766	3,520	7,686	15,195	19,096	15,708
NIAAA	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	17,550
NIAID	9,828	16,436	36,145	53,855	79,935	101,813	145,729	183,015	216,727	217,935
NIADDK	16,898	22,676	–	–	–	–	–	–	–	–
NIAMS	–	–	3,177	5,220	6,845	5,713	5,288	6,717	7,595	6,960
NCI	151,667	166,656	175,568	207,370	211,929	212,855	245,954	254,420	314,465	326,796
NICHD	10,975	18,379	16,395	23,957	31,144	31,423	38,701	47,291	49,586	63,451
NIDCD	–	–	–	–	–	2,986	4,413	3,830	6,265	5,432
NIDR	1,733	1,606	1,504	4,514	5,603	6,645	7,102	4,401	4,916	4,491
NIDDK	–	–	20,660	28,379	32,377	30,202	32,400	39,665	46,312	47,376
NIDA	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	73,745
NEI	11,141	20,709	20,834	25,079	30,235	29,139	24,082	24,244	28,644	28,220
NHLBI	36,819	51,469	50,924	69,959	76,595	77,022	74,396	88,228	81,245	78,711
NIMH	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	45,757
NINCDS	9,260	7,595	6,237	17,737	21,503	–	–	–	–	–
NINDS	–	–	–	–	–	17,534	23,987	25,167	32,604	37,744
NCRR	–	–	–	–	–	–	–	53,009	56,237	54,842
NCNR/NINR	–	–	–	3,604	7,319	–	–	–	–	–

Source: Office of Financial Management

Table 18

NIH Awards by NIH Component and Funding Mechanism, Fiscal Years 1984-1993

(Millions of Dollars)

NIH component and funding mechanism	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
Total	\$3,876.7	\$4,502.9	\$4,701.2	\$5,574.9	\$6,011.3	\$6,640.9	\$7,098.6	\$7,735.4	\$8,347.3	\$8,515.6
NIA	86.9	107.6	115.8	137.7	153.5	177.1	187.5	261.3	309.7	324.7
Research grants	77.4	97.1	105.9	126.7	140.3	162.0	172.9	245.2	289.2	303.9
R&D contracts	6.9	6.3	4.8	4.5	5.7	6.9	5.5	5.4	9.2	9.4
Research training	2.6	4.2	5.1	6.5	7.5	8.2	9.1	10.7	11.4	11.3
NIAAA	33.7	41.4	46.2	59.8	79.3	101.2	135.3	148.6	159.6	140.3
Research grants	31.4	37.5	43.6	54.9	73.1	94.0	126.2	138.3	148.6	132.3
R&D contracts ^a	1.4	2.4	1.3	2.3	3.7	4.4	5.7	6.9	7.6	4.7
Research training	1.0	1.4	1.4	2.5	2.6	2.7	3.5	3.4	3.4	3.3
NIAID	252.8	300.3	335.4	453.9	538.9	622.1	698.6	759.3	796.4	819.0
Research grants	216.2	256.4	258.6	355.2	444.3	494.2	548.7	592.9	629.9	665.0
R&D contracts	28.2	32.6	66.0	87.2	81.6	113.6	131.7	146.4	145.6	132.1
Research training	8.4	11.4	10.7	11.5	13.0	14.3	18.2	20.0	20.9	21.9
NIAMS	82.2	100.5	101.8	126.8	132.3	143.2	148.2	170.0	179.3	184.1
Research grants	76.9	92.6	93.9	117.8	123.1	134.3	139.0	160.7	168.6	175.1
R&D contracts	1.2	1.7	2.2	2.6	2.9	2.6	2.8	3.0	4.4	2.6
Research training	4.1	6.1	5.7	6.4	6.3	6.3	6.5	6.3	6.4	6.4
NCI	838.3	924.3	962.5	1,107.8	1,143.2	1,225.1	1,300.3	1,350.7	1,536.6	1,536.4
Research grants	635.0	703.6	743.6	848.6	874.9	929.1	948.6	1,014.3	1,167.6	1,198.9
R&D contracts	177.7	184.3	189.2	225.2	237.1	263.5	302.9	278.1	321.6	291.0
Research training	24.6	31.0	29.8	31.5	31.2	32.5	35.1	36.6	36.5	36.4
Construction grants	1.0	5.5	-	2.5	-	-	13.7	21.6	10.8	10.1
NICHD	223.4	256.2	256.5	304.5	321.9	348.1	356.7	396.5	430.0	442.0
Research grants	196.6	221.5	222.4	267.2	279.8	303.3	307.0	338.3	366.0	374.1
R&D contracts	16.7	20.8	20.1	23.1	27.9	31.1	34.6	41.3	46.2	50.9
Research training	10.1	14.0	14.1	14.3	14.2	13.8	15.1	16.9	17.7	17.1
NIDCD	-	-	-	-	-	88.3	106.3	120.9	134.2	139.0
Research grants	-	-	-	-	-	84.7	101.2	115.9	126.2	130.5
R&D contracts	-	-	-	-	-	1.1	2.0	1.8	3.9	3.8
Research training	-	-	-	-	-	2.5	3.1	3.2	4.2	4.8

^a Source for contracts awarded by NIAAA, NIDA, and NIMH in FY 1984-1992: Division of Financial Management.

^b Less than \$0.1 million.

^c CC, DRG, OD, and Women's Health Initiative.

Source: Information Systems Branch, DRG
(Continued)

Table 18 (Cont.)

**NIH Awards by NIH Component and Funding
Mechanism, Fiscal Years 1984–1993**

(Millions of Dollars)

NIH component and funding mechanism	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
NIDR	\$62.8	\$72.8	\$71.6	\$85.3	\$92.5	\$95.7	\$96.8	\$109.3	\$117.2	\$116.6
Research grants	55.8	64.0	63.8	75.7	83.5	87.1	88.4	99.3	107.2	107.8
R&D contracts	3.1	4.0	3.4	4.4	3.7	3.4	2.6	4.0	4.0	3.1
Research training	3.8	4.8	4.3	5.2	5.3	5.2	5.8	6.0	5.9	5.7
NIDDK	307.3	360.1	369.1	434.3	452.1	472.9	483.9	514.0	556.2	575.3
Research grants	286.4	332.3	340.9	403.1	419.9	439.1	448.1	474.7	516.5	532.4
R&D contracts	5.9	7.2	8.5	10.3	10.7	12.2	12.5	15.4	15.4	18.2
Research training	15.0	20.6	19.7	20.9	21.5	21.6	23.4	23.9	24.3	24.8
NIDA	50.7	59.7	64.6	119.8	155.3	228.3	307.6	356.5	343.6	353.0
Research grants	44.3	52.6	57.9	98.5	128.4	197.5	257.4	296.9	287.8	295.5
R&D contracts ^a	5.7	5.7	5.4	19.4	24.9	28.7	46.7	48.1	48.9	50.4
Research training	0.8	1.4	1.4	2.0	2.1	2.1	3.5	6.6	6.9	7.0
Construction	—	—	—	—	—	—	—	4.9	—	—
NIEHS	110.0	125.8	130.0	153.5	158.6	172.1	188.7	199.1	216.3	231.3
Research grants	61.0	69.3	70.9	93.1	95.7	104.1	121.2	133.3	152.1	168.5
R&D contracts	42.3	48.0	51.0	51.5	54.1	59.1	57.1	55.1	53.5	52.2
Research training	6.8	8.5	8.1	8.9	8.8	8.9	10.3	10.7	10.7	10.5
NEI	131.9	156.4	164.9	191.0	196.4	199.5	201.8	216.8	234.0	239.6
Research grants	122.1	140.9	150.2	176.4	184.3	188.5	190.6	204.8	220.7	226.3
R&D contracts	6.0	7.0	6.3	6.7	6.5	5.0	3.6	4.8	5.0	5.4
Research training	3.9	5.2	5.3	5.6	5.6	6.0	7.0	7.2	7.2	7.1
Construction grants	—	3.3	3.1	2.3	—	—	0.5	—	1.1	0.8
NIHMS	402.5	466.5	483.2	562.5	622.5	664.5	701.4	755.2	811.1	833.5
Research grants	352.0	406.9	426.4	493.8	550.5	582.3	610.3	655.3	714.5	735.2
R&D contracts	1.5	1.7	1.4	4.1	5.4	6.6	5.9	4.9	2.5	1.8
Research training	49.1	57.9	55.3	64.6	66.6	75.6	85.2	95.1	94.2	96.4
NHLBI	606.0	703.1	728.7	826.2	855.7	923.5	933.8	974.3	1,034.6	1,052.2
Research grants	516.6	595.7	619.2	700.0	728.8	782.3	784.6	821.9	876.3	891.9
R&D contracts	61.0	64.5	69.4	84.9	87.7	101.7	104.5	107.1	109.0	115.7
Research training	28.4	39.7	38.4	39.1	39.2	39.5	44.0	45.3	46.3	43.4
Construction grants	—	3.2	1.7	2.2	—	—	0.7	—	3.0	1.2

See footnotes on first page of table.

(Continued)

Table 18 (Cont.)

**NIH Awards by NIH Component and Funding
Mechanism, Fiscal Years 1984–1993**

(Millions of Dollars)

NIH component and funding mechanism	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
NIMH	\$134.5	\$153.7	\$163.7	\$201.1	\$231.9	\$302.4	\$373.8	\$439.6	\$465.0	\$450.9
Research grants	116.9	133.6	144.6	180.6	204.6	272.8	337.7	399.6	422.3	408.7
R&D contracts ^a	—	—	—	—	6.9	7.2	10.1	12.4	15.0	13.6
Research training	17.7	20.1	19.1	20.5	20.4	22.5	26.0	27.6	27.7	28.6
NINDS	270.7	326.6	349.5	417.6	452.5	392.4	402.2	446.6	480.0	496.8
Research grants	244.2	299.0	324.4	390.2	427.0	368.0	378.0	415.9	449.1	464.7
R&D contracts	16.8	14.4	12.5	13.5	11.6	11.4	11.3	17.4	17.7	19.0
Research training	9.7	13.2	12.6	13.9	13.8	13.0	12.9	13.3	13.2	13.1
DRR/NCRR	247.9	313.1	310.1	337.3	355.8	398.5	328.0	328.1	306.2	308.3
Research grants	243.5	306.3	303.3	331.1	349.3	363.4	310.1	310.7	290.7	292.6
R&D contracts	3.6	5.6	5.7	4.9	4.3	3.7	4.4	3.8	3.9	5.4
Research training	0.7	1.3	1.2	1.4	2.2	2.5	2.5	2.7	2.7	2.7
Other	—	—	—	—	—	28.9	11.0	10.8	9.0	7.6
FIC	5.4	5.2	4.8	5.1	8.7	8.8	10.2	11.1	13.0	17.4
Research grants	—	—	—	—	0.1	—	—	—	1.0	3.7
R&D contracts	0.1	—	0.1	0.2	0.1	— ^b	—	—	—	—
Research training	5.2	5.2	4.8	4.9	5.3	5.1	6.1	6.6	7.4	9.0
Other	—	—	—	—	3.2	3.7	4.1	4.4	4.6	4.8
NCHGR	—	—	—	—	—	—	51.8	78.8	95.3	97.1
Research grants	—	—	—	—	—	—	50.7	77.1	93.2	95.2
R&D contracts	—	—	—	—	—	—	0.4	—	— ^b	—
Research training	—	—	—	—	—	—	0.7	1.7	2.1	1.9
NCNR	—	—	10.8	17.6	22.3	28.2	32.8	39.1	44.2	46.9
Research grants	—	—	9.8	15.5	19.7	24.8	28.6	34.8	40.0	42.8
R&D contracts	—	—	—	—	—	—	—	—	—	—
Research training	—	—	1.0	2.1	2.6	3.4	4.1	4.3	4.3	4.1
NLM	16.3	18.9	19.9	24.3	29.3	36.4	44.4	48.7	53.5	55.5
Research grants	3.2	5.7	6.0	6.8	6.2	7.4	11.8	11.5	11.9	12.0
R&D contracts	10.5	9.0	10.1	12.4	17.0	22.9	24.7	29.0	32.3	34.3
Research training	0.8	1.1	1.1	2.1	2.6	2.6	3.0	3.0	4.0	4.2
Other	1.7	3.0	2.8	3.0	3.5	3.5	4.9	5.2	5.3	4.9
Other^c	13.4	10.8	12.0	8.9	8.6	12.5	8.5	11.1	31.4	55.8
R&D contracts	13.4	10.8	12.0	8.9	8.6	12.5	8.5	11.1	31.4	55.8

See footnotes on first page of table.

Table 19

**NIH Awards by Kind of Award
and NIH Component, Fiscal Year 1993**

(Dollars in Thousands)

Kind of award and activity code	Total		NIA		NIAAA		NIAID	
	Number	Amount	Number	Amount	Number	Amount	Number	Amount
Total	35,861	\$8,515,579	1,234	\$324,665	581	\$140,286	3,135	\$818,970
Research projects	24,676	5,731,396	933	241,561	425	98,779	2,529	642,776
Traditional (R01)	18,113	3,723,254	634	126,047	340	81,853	1,683	346,803
Research program projects (P01)	837	799,175	74	57,391	5	4,993	62	37,355
SBIR (R43, R44)	948	112,150	33	4,929	13	1,793	111	11,842
MERIT awards (R37)	1,273	363,078	64	16,835	24	6,019	164	48,695
Outstanding investigator (R35)	91	71,074	14	9,737	—	—	—	—
FIRST awards (R29)	2,613	257,658	78	7,726	43	4,120	316	31,963
Other (P42, U01)	801	405,007	36	18,895	—	—	193	166,117
Research centers	925	910,562	57	51,541	14	17,342	16	7,722
Specialized (P50, U54)	307	343,307	21	25,557	14	17,342	3	1,291
Core grants (P30)	241	233,491	19	14,675	—	—	12	5,318
General clinical (M01)	75	125,300	—	—	—	—	—	—
Comprehensive (P60)	44	57,089	6	7,480	—	—	—	—
Biotechnology resource (P41, U41)	91	41,859	—	—	—	—	—	—
Primate research center (P51)	9	41,280	—	—	—	—	—	—
Animal resource (P40, U42)	36	14,477	—	—	—	—	—	—
RCMIs (G12)	19	26,633	—	—	—	—	—	—
Other (P20)	103	27,127	11	3,830	—	—	1	1,113

^a R03, R13, R15, R18, R21, R24, R25, S15, U13, U18, and U45 for all ICDs. Also, for NLM only, includes P41, P50, R01, R29, R43, and U24. For NCRR only, includes U24. For FIC only, includes U01.

Source: Information Systems Branch, DRG
(Continued)

Table 19 (Cont.)

**NIH Awards by Kind of Award
and NIH Component, Fiscal Year 1993**

(Dollars in Thousands)

Kind of award and activity code	Total		NIA		NIAAA		NIAID	
	Number	Amount	Number	Amount	Number	Amount	Number	Amount
Other research	4,440	\$615,047	131	\$10,842	94	\$16,162	206	\$14,454
Biomedical research support and development (S03, S10)	431	18,214	—	—	—	—	—	—
RCPAs (K)	1,817	161,307	89	8,917	40	3,446	117	8,818
Cooperative clinical (R10, U10)	491	180,687	—	—	12	9,992	—	—
Minority biomedical support (S06, S14)	98	45,067	—	—	—	—	—	—
Other ^a	1,603	209,772	42	1,925	42	2,723	89	5,636
Contracts	1,457	869,468	17	9,434	9	4,655	139	132,135
Training	4,283	359,690	96	11,287	39	3,348	245	21,883
Individual awards (F's)	2,471	62,576	33	844	19	369	128	3,607
Institutional awards (T's)	1,812	297,114	63	10,443	20	2,979	117	18,277
Other awards (C06, D43, G07, G08, G20)	80	29,416	—	—	—	—	—	—

See footnote on first page of table.

(Continued)

Table 19 (Cont.)

**NIH Awards by Kind of Award
and NIH Component, Fiscal Year 1993**

(Dollars in Thousands)

Kind of award and activity code	NIAMS		NCI		NICHD		NIDCD	
	Number	Amount	Number	Amount	Number	Amount	Number	Amount
Total	940	\$184,134	5,100	\$1,536,383	2,080	\$442,033	708	\$139,006
Research projects	712	144,694	3,461	920,413	1,456	288,961	520	107,202
Traditional (R01)	513	101,990	2,320	494,539	1,104	197,621	391	73,193
Research program projects (P01)	18	16,622	184	203,355	59	46,005	23	23,214
SBIR (R43, R44)	24	2,676	216	20,401	69	6,327	16	2,286
MERIT awards (R37)	45	11,896	166	51,733	49	12,228	—	—
Outstanding investigator (R35)	—	—	77	61,336	—	—	—	—
FIRST awards (R29)	105	10,809	299	29,056	128	11,997	83	7,695
Other (P42, U01)	7	700	199	59,991	47	14,783	7	815
Research centers	28	23,634	106	144,969	81	48,956	18	17,065
Specialized (P50, U54)	9	7,942	9	17,713	27	21,572	10	9,274
Core grants (P30)	4	1,402	59	120,357	53	27,280	—	—
General clinical (M01)	—	—	—	—	—	—	—	—
Comprehensive (P60)	14	14,009	—	—	—	—	8	7,791
Biotechnology resource (P41, U41)	—	—	—	—	—	—	—	—
Primate research center (P51)	—	—	—	—	—	—	—	—
Animal resource (P40, U42)	—	—	—	—	—	—	—	—
RCMIs (G12)	—	—	—	—	—	—	—	—
Other (P20)	1	281	38	6,899	1	104	—	—

See footnote on first page of table.

(Continued)

Table 19 (Cont.)

**NIH Awards by Kind of Award
and NIH Component, Fiscal Year 1993**

(Dollars in Thousands)

Kind of award and activity code	NIAMS		NCI		NICHD		NIDCD	
	Number	Amount	Number	Amount	Number	Amount	Number	Amount
Other research	93	\$6,784	634	\$133,540	203	\$36,135	96	\$6,199
Biomedical research support and development (S03, S10)	—	—	—	—	—	—	—	—
RCPAs (K)	67	5,152	163	14,044	82	7,407	42	3,285
Cooperative clinical (R10, U10)	—	—	226	106,096	58	23,253	1	1,154
Minority biomedical support (S06, S14)	—	—	—	—	—	—	—	—
Other ^a	26	1,632	245	13,400	63	5,475	53	1,760
Contracts	14	2,586	536	290,997	94	50,914	9	3,756
Training	93	6,437	354	36,395	246	17,068	65	4,783
Individual awards (F's)	35	957	170	4,349	116	3,116	35	865
Institutional awards (T's)	58	5,480	184	32,047	130	13,952	30	3,918
Other awards (C06, D43, G07, G08, G20)	—	—	9	10,069	—	—	—	—

See footnote on first page of table.

(Continued)

Table 19 (Cont.)

**NIH Awards by Kind of Award
and NIH Component, Fiscal Year 1993**

(Dollars in Thousands)

Kind of award and activity code	NIDR		NIDDK		NIDA		NIEHS	
	Number	Amount	Number	Amount	Number	Amount	Number	Amount
Total	671	\$116,592	2,835	\$575,344	1,134	\$352,967	702	\$231,278
Research projects	417	77,993	2,187	468,032	735	194,555	433	115,979
Traditional (R01)	299	52,911	1,602	306,717	588	154,917	336	63,326
Research program projects (P01)	17	10,827	57	50,788	10	7,795	21	14,993
SBIR (R43, R44)	17	2,754	44	6,128	28	5,184	13	1,556
MERIT awards (R37)	27	6,194	159	46,263	20	4,885	9	2,018
Outstanding investigator (R35)	—	—	—	—	—	—	—	—
FIRST awards (R29)	57	5,307	245	25,388	66	6,740	33	3,269
Other (P42, U01)	—	—	80	32,748	23	15,034	21	30,817
Research centers	31	18,138	63	46,663	24	26,612	19	18,088
Specialized (P50, U54)	22	14,112	18	11,254	23	25,694	—	—
Core grants (P30)	3	1,706	32	24,542	—	—	18	17,293
General clinical (M01)	—	—	—	—	—	—	—	—
Comprehensive (P60)	—	—	6	10,648	—	—	—	—
Biotechnology resource (P41, U41)	—	—	—	—	—	—	—	—
Primate research center (P51)	—	—	—	—	—	—	—	—
Animal resource (P40, U42)	—	—	—	—	—	—	—	—
RCMIs (G12)	—	—	—	—	—	—	—	—
Other (P20)	6	2,319	7	218	1	918	1	795

See footnote on first page of table.

(Continued)

Table 19 (Cont.)

**NIH Awards by Kind of Award
and NIH Component, Fiscal Year 1993**

(Dollars in Thousands)

Kind of award and activity code	NIDR		NIDDK		NIDA		NIEHS	
	Number	Amount	Number	Amount	Number	Amount	Number	Amount
Other research	139	\$11,634	238	\$17,668	200	\$74,358	62	\$34,476
Biomedical research support and development (S03, S10)	-	-	-	-	-	-	-	-
RCPAs (K)	56	8,763	172	15,174	77	7,661	25	2,346
Cooperative clinical (R10, U10)	-	-	-	-	-	-	-	-
Minority biomedical support (S06, S14)	-	-	-	-	-	-	-	-
Other ^a	83	2,871	66	2,494	123	66,697	37	32,130
Contracts	10	3,107	29	18,177	78	50,401	96	52,231
Training	74	5,720	318	24,804	97	7,041	92	10,505
Individual awards (F's)	23	643	151	4,437	65	1,257	44	1,243
Institutional awards (T's)	51	5,077	167	20,367	32	5,784	48	9,262
Other awards (C06, D43, G07, G08, G20)	-	-	-	-	-	-	-	-

See footnote on first page of table.

(Continued)

Table 19 (Cont.)

**NIH Awards by Kind of Award
and NIH Component, Fiscal Year 1993**

(Dollars in Thousands)

Kind of award and activity code	NEI		NIGMS		NHLBI		NIMH		NINDS	
	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount
Total	1,396	\$239,560	4,741	\$833,489	3,882	\$1,052,221	2,213	\$450,864	2,376	\$496,797
Research projects	1,015	187,825	3,519	667,164	2,779	755,749	1,282	289,643	1,827	416,372
Traditional (R01)	880	165,399	2,844	532,214	1,925	437,923	841	199,092	1,484	308,102
Research program projects (P01)	—	—	42	28,874	134	173,707	22	18,857	97	82,232
SBIR (R43, R44)	25	3,415	92	10,270	108	16,174	42	5,292	43	5,988
MERIT awards (R37)	51	13,359	180	60,681	160	40,711	153	40,645	—	—
Outstanding investigator (R35)	—	—	—	—	—	—	—	—	—	—
FIRST awards (R29)	59	5,652	336	32,625	333	33,184	197	19,935	195	18,487
Other (P42, U01)	—	—	25	2,500	119	54,051	27	5,822	8	1,563
Research centers	29	7,639	9	7,784	68	96,768	61	65,318	45	31,203
Specialized (P50, U54)	—	—	9	7,784	58	79,608	48	56,487	27	24,293
Core grants (P30)	29	7,639	—	—	—	—	9	7,405	—	—
General clinical (M01)	—	—	—	—	—	—	—	—	—	—
Comprehensive (P60)	—	—	—	—	10	17,161	—	—	—	—
Biotechnology resource (P41, U41)	—	—	—	—	—	—	—	—	—	—
Primate research center (P51)	—	—	—	—	—	—	—	—	—	—
Animal resource (P40, U42)	—	—	—	—	—	—	—	—	—	—
RCMIs (G12)	—	—	—	—	—	—	—	—	—	—
Other (P20)	—	—	—	—	—	—	4	1,426	18	6,910

See footnote on first page of table.

(Continued)

Table 19 (Cont.)

**NIH Awards by Kind of Award
and NIH Component, Fiscal Year 1993**

(Dollars in Thousands)

Kind of award and activity code	NEI		NIGMS		NHLBI		NIMH		NINDS	
	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount
Other research	205	\$30,802	266	\$60,268	440	\$39,423	417	\$53,713	224	\$17,141
Biomedical research support and development (S03, S10)	—	—	—	—	—	—	—	—	—	—
RCPAs (K)	17	1,318	21	1,271	360	29,608	258	26,141	186	14,790
Cooperative clinical (R10, U10)	165	28,478	—	—	12	3,968	16	6,671	1	1,074
Minority biomedical support (S06, S14)	—	—	98	45,067	—	—	—	—	—	—
Other ^a	23	1,006	147	13,930	68	5,847	143	20,902	37	1,277
Contracts	13	5,393	2	1,829	168	115,683	39	13,556	51	19,021
Training	132	7,075	945	96,445	424	43,360	414	28,633	229	13,061
Individual awards (F's)	102	2,681	594	15,281	211	6,175	237	3,984	162	4,300
Institutional awards (T's)	30	4,394	351	81,164	213	37,186	177	24,650	67	8,761
Other awards (C06, D43, G07, G08, G20)	2	825	—	—	3	1,237	—	—	—	—

See footnote on first page of table.

(Continued)

Table 19 (Cont.)

**NIH Awards by Kind of Award
and NIH Component, Fiscal Year 1993**

(Dollars in Thousands)

Kind of award and activity code	NINR		FIC		NCHGR		NCRR		NLM	
	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount
Total	369	\$46,902	322	\$17,398	259	\$97,084	944	\$308,314	206	\$55,483
Research projects	177	37,023	-	-	162	60,111	107	16,565	-	-
Traditional (R01)	133	32,906	-	-	132	35,671	64	12,028	-	-
Research program projects (P01)	-	-	-	-	9	21,232	3	934	-	-
SBIR (R43, R44)	8	569	-	-	11	1,452	35	3,114	-	-
MERIT awards (R37)	-	-	-	-	2	915	-	-	-	-
Outstanding investigator (R35)	-	-	-	-	-	-	-	-	-	-
FIRST awards (R29)	30	2,675	-	-	5	542	5	489	-	-
Other (P42, U01)	6	873	-	-	3	300	-	-	-	-
Research centers	8	1,762	-	-	14	31,427	234	247,931	-	-
Specialized (P50, U54)	2	1,133	-	-	7	22,253	-	-	-	-
Core grants (P30)	-	-	-	-	3	5,873	-	-	-	-
General clinical (M01)	-	-	-	-	-	-	75	125,300	-	-
Comprehensive (P60)	-	-	-	-	-	-	-	-	-	-
Biotechnology resource (P41, U41)	-	-	-	-	2	2,367	89	39,492	-	-
Primate research center (P51)	-	-	-	-	-	-	9	41,280	-	-
Animal resource (P40, U42)	-	-	-	-	-	-	36	14,477	-	-
RCMIs (G12)	-	-	-	-	-	-	19	26,633	-	-
Other (P20)	6	629	-	-	2	934	6	750	-	-

See footnote on first page of table.

(Continued)

Table 19 (Cont.)

**NIH Awards by Kind of Award
and NIH Component, Fiscal Year 1993**

(Dollars in Thousands)

Kind of award and activity code	NINR		FIC		NCHGR		NCRR		NLM	
	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount
Other research	41	\$4,053	99	\$3,655	48	\$3,633	544	\$28,073	60	\$12,033
Biomedical research support and development (S03, S10)	—	—	—	—	—	—	431	18,214	—	—
RCPAs (K)	17	1,299	—	—	12	817	16	1,050	—	—
Cooperative clinical (R10, U10)	—	—	—	—	—	—	—	—	—	—
Minority biomedical support (S06, S14)	—	—	—	—	—	—	—	—	—	—
Other ^a	24	2,755	99	3,655	36	2,816	97	8,809	60	12,033
Contracts	—	—	—	—	—	—	13	5,439	107	34,346
Training	143	4,063	208	8,970	35	1,913	19	2,659	15	4,238
Individual awards (F's)	124	1,655	189	5,828	25	682	3	90	5	215
Institutional awards (T's)	19	2,408	19	3,141	10	1,231	16	2,569	10	4,023
Other awards (C06, D43, G07, G08, G20)	—	—	15	4,773	—	—	27	7,647	24	4,865

See footnote on first page of table.

Table 20

NIH Awards by Kind of Award, Fiscal Years 1984–1993

(Dollars in Thousands)

Kind of award and activity code	1984		1985		1986		1987		1988	
	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount
Total	27,904	\$3,876,663	29,914	\$4,502,885	30,182	\$4,701,167	32,387	\$5,574,886	33,165	\$6,011,331
Research projects^a	19,011	2,559,265	20,311	2,969,648	20,683	3,134,663	21,988	3,757,039	22,725	4,063,162
Traditional (R01)	16,922	2,046,341	17,798	2,343,352	17,778	2,404,165	18,493	2,766,620	18,470	2,822,758
Research program projects (P01)	582	398,405	640	467,314	650	491,462	750	597,394	787	646,308
New investigator research (R23)	985	48,782	1,064	53,723	1,074	53,135	683	34,033	280	12,872
SBIR (R43, R44, U43)	252	21,273	359	33,159	457	45,303	471	52,732	505	59,082
MERIT awards (R37)	–	–	–	–	177	39,125	388	87,966	665	153,647
Outstanding investigator (R35)	–	–	23	7,896	45	23,248	60	35,122	74	46,985
FIRST awards (R29)	–	–	–	–	34	2,825	601	55,686	1,327	117,674
Other (P41, ^b P42, R22, R55, ^c U01, U19)	270	44,463	427	64,203	468	75,400	542	127,486	617	203,837
Research centers^d	564	452,364	607	505,527	621	507,396	634	575,286	684	627,297
Specialized (P50, U54)	203	161,953	211	172,844	214	163,960	234	201,488	255	218,251
Core grants (P30)	151	121,951	161	135,164	164	137,749	160	150,600	176	165,586
General clinical (M01)	75	80,951	78	87,446	78	86,947	78	91,663	78	102,159
Comprehensive (P60)	31	32,195	32	39,422	34	40,062	34	43,043	36	47,920
Biotechnology resource (P41, U41)	56	26,348	69	34,962	66	33,858	68	35,946	70	36,697
Primate research center (P51)	7	22,574	9	24,520	7	23,866	7	32,293	7	33,300
Animal resource (P40, U40, U42)	41	6,392	40	6,397	41	10,090	36	9,153	42	12,064
RCMIs (G12)	–	–	7	4,771	16	9,799	16	10,000	19	11,010
Other (P20)	–	–	–	–	1	1,065	1	1,101	1	310

^a Excludes NLM and DRR (included under Other research), but includes NCRR starting in FY 1990.

^b P41 for NIGMS only.

^c R55 for 1993 only; for prior years, included under Other research.

^d Excludes NLM (included under Other research).

^e D42, R03, R12, R13, R15, R18, R19, R21, R24, R25, R26, R55 (prior to FY 1993), S15, U13, U18, U26, and U45 for all ICDs. Also, for DRR (prior to 1990) and NLM only, includes P41, P50, R01, R23, R29, R43, R44, U24, and U50. For NCRR only, includes U24. For FIC only, includes U01. For NCNR in FY 1986 only, includes P01, R01, and R23.

^f Source for contracts awarded by NIAAA, NIDA, and NIMH in FY 1984–1992: Division of Financial Management.

Source: Information Systems Branch, DRG
(Continued)

Table 20 (Cont.)

**NIH Awards by Kind of Award,
Fiscal Years 1984–1993**

(Dollars in Thousands)

Kind of award and activity code	1984		1985		1986		1987		1988	
	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount
Other research	3,572	\$267,850	3,809	\$339,930	3,959	\$343,153	4,575	\$402,871	4,641	\$442,915
Biomedical research support and development (S03, S07, S10)	946	67,897	1,025	96,069	1,025	91,420	1,036	92,976	1,110	90,918
RCPAs (K)	1,435	65,148	1,563	88,132	1,555	92,055	1,659	103,921	1,695	109,318
Cooperative clinical (R10, U10)	441	60,427	393	65,921	399	62,360	367	76,902	336	82,081
Minority biomedical support (S06, S11, S14)	89	31,795	101	35,588	103	34,267	104	39,043	102	39,773
Other ^e	661	42,584	727	54,220	877	63,051	1,409	90,029	1,398	120,826
Contracts^f	1,188	401,774	1,376	425,812	1,330	469,272	1,320	566,075	1,351	600,547
Training	3,528	192,685	3,735	246,864	3,526	238,936	3,808	263,762	3,731	270,658
Individual awards (F's)	1,930	36,869	2,147	49,375	1,986	45,636	2,225	50,089	2,119	48,125
Institutional awards (T's)	1,598	155,816	1,588	197,489	1,540	193,300	1,583	213,674	1,612	222,533
Other awards (C06, D43, G07, G08, G20)	41	2,725	76	15,104	63	7,747	62	9,852	33	6,753

See footnotes on first page of table.

(Continued)

Table 20 (Cont.)

**NIH Awards by Kind of Award,
Fiscal Years 1984–1993**

(Dollars in Thousands)

Kind of award and activity code	1989		1990		1991		1992		1993	
	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount
Total	34,032	\$6,640,917	34,444	\$7,098,552	36,259	\$7,735,386	36,343	\$8,347,303	35,861	\$8,515,579
Research projects^a	23,323	4,444,009	23,187	4,689,761	23,931	5,106,936	24,723	5,540,275	24,676	5,731,396
Traditional (R01)	18,357	3,002,460	17,731	3,087,005	17,919	3,348,371	18,366	3,620,471	18,113	3,723,254
Research program projects (P01)	817	698,655	800	715,124	813	733,268	854	794,771	837	799,175
New investigator research (R23)	57	2,748	—	—	—	—	—	—	—	—
SBIR (R43, R44, U43)	581	64,863	674	74,863	736	83,126	817	90,894	948	112,150
MERIT awards (R37)	879	207,179	1,029	251,220	1,148	294,661	1,220	330,476	1,273	363,078
Outstanding investigator (R35)	86	57,038	87	63,153	97	69,496	91	69,862	91	71,074
FIRST awards (R29)	1,882	168,365	2,307	214,240	2,629	255,987	2,753	271,487	2,613	257,658
Other (P41, ^b P42, R22, R55, ^c U01, U19)	664	242,699	559	284,156	589	322,028	622	362,313	801	405,007
Research centers^d	701	673,670	743	715,638	792	797,673	853	893,798	925	910,562
Specialized (P50, U54)	257	239,418	282	261,329	291	296,711	297	338,799	307	343,307
Core grants (P30)	187	175,754	208	188,224	227	212,220	235	233,573	241	233,491
General clinical (M01)	79	108,215	83	115,392	76	117,741	79	125,999	75	125,300
Comprehensive (P60)	33	45,082	36	47,777	40	53,738	43	55,394	44	57,089
Biotechnology resource (P41, U41)	67	38,960	64	32,779	67	36,680	68	40,600	91	41,859
Primate research center (P51)	10	36,753	7	36,679	8	37,042	7	42,191	9	41,280
Animal resource (P40, U40, U42)	48	12,105	41	12,690	40	12,834	42	14,405	36	14,477
RCMIs (G12)	18	17,170	17	18,790	22	24,677	20	26,005	19	26,633
Other (P20)	2	213	5	1,978	21	6,029	62	16,832	103	27,127

See footnotes on first page of table.

(Continued)

Table 20 (Cont.)

**NIH Awards by Kind of Award,
Fiscal Years 1984–1993**

(Dollars in Thousands)

Kind of award and activity code	1989		1990		1991		1992		1993	
	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount
Other research	4,850	\$501,339	4,978	\$555,718	5,649	\$636,923	4,872	\$645,190	4,440	\$615,047
Biomedical research support and development (S03, S07, S10)	1,130	88,762	1,131	79,957	1,157	63,143	528	22,982	431	18,214
RCPAs (K)	1,652	110,840	1,660	122,189	1,709	142,936	1,763	152,331	1,817	161,307
Cooperative clinical (R10, U10)	352	92,436	421	109,910	487	127,165	500	177,726	491	180,687
Minority biomedical support (S06, S11, S14)	93	38,984	107	40,501	100	42,560	101	45,141	98	45,067
Other ^e	1,623	170,318	1,659	203,159	2,196	261,120	1,980	247,009	1,603	209,772
Contracts^f	1,423	697,501	1,498	777,397	1,569	795,893	1,551	877,071	1,457	869,468
Training	3,652	288,284	3,930	325,286	4,213	350,954	4,251	357,158	4,283	359,690
Individual awards (F's)	2,016	48,964	2,257	54,622	2,435	59,982	2,447	60,945	2,471	62,576
Institutional awards (T's)	1,636	239,319	1,673	270,665	1,778	290,972	1,804	296,213	1,812	297,114
Other awards (C06, D43, G07, G08, G20)	83	36,113	108	34,753	105	47,007	93	33,811	80	29,416

See footnotes on first page of table.

Table 21

**NIH Awards by Kind of Performing Institution,
Fiscal Years 1984-1993**

(Dollars in Thousands)

Performing institution	1984		1985		1986		1987		1988	
	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent
Total^a	\$3,876,663^a	100.0%	\$4,502,885^a	100.0%	\$4,701,167^a	100.0%	\$5,574,886^a	100.0%	\$6,011,331^a	100.0%
Domestic	3,843,478	99.3	4,469,532	99.4	4,666,950	99.4	5,518,360	99.4	5,933,660	99.3
Nonprofit	3,626,468	93.7	4,243,472	94.4	4,421,162	94.2	5,223,979	94.1	5,602,937	93.8
Higher education ^b	2,912,097	75.3	3,415,369	76.0	3,550,121	75.6	4,176,579	75.2	4,475,158	74.9
Medical schools ^c	2,002,341	51.7	2,346,219	52.2	2,430,659	51.8	2,867,551	51.6	3,081,446	51.6
Government	56,552	1.5	63,699	1.4	65,949	1.4	83,881	1.5	91,638	1.5
Federal	3,282	0.1	4,617	0.1	6,880	0.1	6,259	0.1	6,008	0.1
Research institutes	1,973	0.1	3,420	0.1	4,161	0.1	3,892	0.1	3,228	0.1
Hospitals	1,223	— ^d	1,005	— ^d	835	— ^d	1,376	— ^d	1,394	— ^d
Other	86	— ^d	192	— ^d	1,885	— ^d	991	— ^d	1,385	— ^d
State and local	53,270	1.4	59,082	1.3	59,068	1.3	77,622	1.4	85,630	1.4
Research institutes	2,366	0.1	2,770	0.1	3,253	0.1	5,467	0.1	7,296	0.1
Hospitals	39,703	1.0	43,693	1.0	42,611	0.9	54,022	1.0	51,576	0.9
Other	11,201	0.3	12,619	0.3	13,205	0.3	18,132	0.3	26,758	0.4
Other nonprofit	657,819	17.0	764,405	17.0	805,092	17.1	963,519	17.4	1,036,141	17.3
Research institutes	351,757	9.1	401,558	8.9	424,492	9.0	497,673	9.0	538,476	9.0
Hospitals ^e	241,896	6.3	295,462	6.6	309,070	6.6	382,683	6.9	397,335	6.6
Other	64,165	1.7	67,384	1.5	71,530	1.5	83,163	1.5	100,331	1.7
For-profit	217,010	5.6	226,060	5.0	245,788	5.2	294,381	5.3	330,722	5.5
Research institutes	84,690	2.2	82,619	1.8	80,292	1.7	81,477	1.5	90,036	1.5
Other	132,319	3.4	143,440	3.2	165,496	3.5	212,905	3.8	240,686	4.0
Foreign ^f	26,119	0.7	25,266	0.6	27,509	0.6	34,806	0.6	42,219	0.7

^a R&D contracts awarded by NIAAA, NIDA, and NIMH are included in totals only for years prior to FY 1993 because they are not available by kind of performing institution.

^b Includes all hospitals owned by these institutions.

^c Includes basic health-science departments administered by schools of medicine or medicine/dentistry.

^d Less than 0.05 percent.

^e Hospitals not owned by institutions classified as higher education, government, or research institutes.

^f Awards to U.S. citizens working abroad as well as to foreign nationals.

Source: Information Systems Branch, DRG
(Continued)

Table 21 (Cont.)

**NIH Awards by Kind of Performing Institution,
Fiscal Years 1984–1993**

(Dollars in Thousands)

Performing institution	1989		1990		1991		1992		1993	
	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent	Amount	Percent
Total^a	\$6,640,917^a	100.0%	\$7,098,552^a	100.0%	\$7,735,386^a	100.0%	\$8,347,303^a	100.0%	\$8,515,579^a	100.0%
Domestic	6,554,975	99.3	6,995,182	99.4	7,618,176	99.4	8,216,817	99.3	8,462,585	99.4
Nonprofit	6,164,979	93.4	6,544,708	93.0	7,153,141	93.3	7,731,514	93.4	7,931,499	93.1
Higher education ^b	4,882,189	74.0	5,168,255	73.5	5,652,040	73.7	6,111,241	73.8	6,262,997	73.5
Medical schools ^c	3,350,579	50.8	3,566,892	50.7	3,871,081	50.5	4,179,643	50.5	4,285,828	50.3
Government	111,697	1.7	125,398	1.8	132,488	1.7	117,798	1.4	116,228	1.4
Federal	5,811	0.1	4,682	0.1	3,426	— ^d	3,965	— ^d	3,995	— ^d
Research institutes	2,711	— ^d	2,166	— ^d	1,865	— ^d	2,325	— ^d	1,821	— ^d
Hospitals	1,724	— ^d	1,340	— ^d	1,189	— ^d	1,179	— ^d	1,284	— ^d
Other	1,376	— ^d	1,176	— ^d	372	— ^d	461	— ^d	891	— ^d
State and local	105,886	1.6	120,715	1.7	129,062	1.7	113,834	1.4	112,233	1.3
Research institutes	8,833	0.1	7,176	0.1	10,074	0.1	12,301	0.1	14,119	0.2
Hospitals	56,123	0.9	61,612	0.9	62,333	0.8	65,215	0.8	60,358	0.7
Other	40,931	0.6	51,927	0.7	56,654	0.7	36,317	0.4	37,755	0.4
Other nonprofit	1,171,093	17.7	1,251,055	17.8	1,368,613	17.8	1,502,475	18.2	1,552,274	18.2
Research institutes	593,059	9.0	623,258	8.9	667,186	8.7	753,820	9.1	750,043	8.8
Hospitals ^e	458,487	6.9	483,130	6.9	535,796	7.0	559,710	6.8	602,425	7.1
Other	119,546	1.8	144,667	2.1	165,631	2.2	188,944	2.3	199,806	2.3
For-profit	389,996	5.9	450,474	6.4	465,035	6.1	485,303	5.9	531,086	6.2
Research institutes	105,087	1.6	111,376	1.6	126,449	1.6	129,006	1.6	144,356	1.7
Other	284,909	4.3	339,098	4.8	338,586	4.4	356,297	4.3	386,730	4.5
Foreign ^f	45,630	0.7	40,905	0.6	49,827	0.6	59,002	0.7	52,993	0.6

See footnotes on first page of table.

Table 22

NIH Awards by Kind of Performing Institution and Funding Mechanism, Fiscal Year 1993

(Dollars in Thousands)

Performing institution	Total			Research grants								
	No. of inst. ^a	Amount	Percent	Total grants			Project grants		Center grants		Other grants	
				No. of inst. ^a	Amount	Percent	Number	Amount	Number	Amount	Number	Amount
Total	2,134	\$8,515,579	100.0%	1,728	\$7,257,005	100.0%	24,676	\$5,731,396	925	\$910,562	4,440	\$615,047
Domestic	1,992	8,462,585	99.4	1,620	7,221,078	99.5	24,456	5,698,672	921	909,005	4,424	613,401
Nonprofit	1,075	7,931,499	93.1	951	7,072,159	97.5	23,402	5,555,856	915	906,009	4,404	610,294
Higher education ^b	456	6,262,997	73.5	440	5,647,817	77.8	19,462	4,466,666	763	742,803	3,462	438,347
Medical schools ^c	126	4,285,828	50.3	126	3,898,445	53.7	12,635	3,047,163	557	580,924	2,042	270,359
Government	111	116,228	1.4	77	93,839	1.3	298	67,043	11	14,877	59	11,918
Federal	26	3,995	— ^d	13	2,475	— ^d	16	2,294	—	—	4	182
Research institutes	16	1,821	— ^d	3	329	— ^d	3	329	—	—	—	—
Hospitals	9	1,284	— ^d	9	1,255	— ^d	11	1,074	—	—	4	182
Other	1	891	— ^d	1	891	— ^d	2	891	—	—	—	—
State and local	85	112,233	1.3	64	91,364	1.3	282	64,750	11	14,877	55	11,737
Research institutes	5	14,119	0.2	4	13,777	0.2	66	12,602	1	392	11	783
Hospitals	15	60,358	0.7	15	59,144	0.8	159	37,624	8	13,839	32	7,681
Other	65	37,755	0.4	45	18,443	0.3	57	14,524	2	646	12	3,273
Other nonprofit	508	1,552,274	18.2	434	1,330,503	18.3	3,642	1,022,147	141	148,328	883	160,028
Research institutes	192	750,043	8.8	173	639,492	8.8	1,758	518,643	70	84,150	251	36,699
Hospitals ^e	148	602,425	7.1	130	538,383	7.4	1,596	435,982	56	52,373	424	50,028
Other	168	199,806	2.3	131	152,628	2.1	288	67,521	15	11,806	208	73,301
For-profit	917	531,086	6.2	669	148,919	2.1	1,054	142,816	6	2,996	20	3,107
Research institutes	65	144,356	1.7	39	26,296	0.4	111	24,146	2	888	6	1,263
Other	852	386,730	4.5	630	122,622	1.7	943	118,671	4	2,108	14	1,844
Foreign ^f	142	52,993	0.6	108	35,927	0.5	220	32,723	4	1,557	16	1,646

^a A multicampus university (including its components) is counted as one; separately organized components of a university system are counted individually.^b Includes hospitals owned by these institutions.^c Includes basic health-science departments administered by schools of medicine or medicine/dentistry.^d Less than 0.05 percent.^e Hospitals not owned by institutions classified as higher education, government, or research institutes.^f Awards to U.S. citizens abroad as well as to foreign nationals.Source: Information Systems Branch, DRG
(Continued)

Table 22 (Cont.)

NIH Awards by Kind of Performing Institution and Funding Mechanism, Fiscal Year 1993

(Dollars in Thousands)

Performing institution	R&D contracts			Research training						Other awards	
	No. of inst. ^a	Number	Amount	Total		Individual awards		Institutional awards		No. of inst. ^a	Amount
				No. of inst. ^a	Amount	Number	Amount	Number	Amount		
Total	599	1,457	\$869,468	403	\$359,690	2,471	\$62,576	1,812	\$297,114	66	\$29,416
Domestic	563	1,416	852,928	377	359,163	2,449	62,049	1,812	297,114	66	29,416
Nonprofit	276	787	470,880	373	359,043	2,445	61,929	1,812	297,114	66	29,416
Higher education ^b	108	440	273,218	248	322,493	2,101	52,265	1,640	270,228	48	19,469
Medical schools ^c	78	294	167,593	115	209,106	1,119	29,572	1,073	179,534	25	10,684
Government	32	39	19,693	23	2,612	43	1,610	6	1,002	2	84
Federal	—	—	—	15	1,520	39	1,520	—	—	—	—
Research institutes	—	—	—	14	1,492	38	1,492	—	—	—	—
Hospitals	—	—	—	1	29	1	29	—	—	—	—
Other	—	—	—	—	—	—	—	—	—	—	—
State and local	32	39	19,693	8	1,092	4	90	6	1,002	2	84
Research institutes	1	1	308	2	35	2	35	—	—	—	—
Hospitals	1	3	714	3	442	1	34	4	408	1	59
Other	30	35	18,671	3	616	1	22	2	595	1	25
Other nonprofit	136	308	177,970	102	33,938	301	8,054	166	25,884	16	9,863
Research institutes	54	173	96,703	51	12,312	170	4,323	57	7,989	4	1,535
Hospitals ^e	44	70	40,323	33	15,811	117	3,338	81	12,473	9	7,907
Other	38	65	40,943	18	5,814	14	392	28	5,423	3	421
For-profit	287	629	382,047	4	120	4	120	—	—	—	—
Research institutes	39	130	118,004	2	56	2	56	—	—	—	—
Other	248	499	264,044	2	64	2	64	—	—	—	—
Foreign ^f	36	41	16,540	26	527	22	527	—	—	—	—

See footnotes on first page of table.

Table 23

**NIH Awards by NIH Component and
Kind of Performing Institution, Fiscal Year 1993**

(Thousands of Dollars)

NIH component	Total	Domestic nonprofit institutions								Domestic profit institutions			Foreign ^d
		Total	Higher education ^a				Other nonprofit			Total	Research institutes	Other	
			Total	Medical schools ^b	Other health professional schools	Other	Research institutes	Hospitals ^c	Other				
Total	\$8,515,579	\$7,931,499	\$6,262,997	\$4,285,828	\$619,425	\$1,357,744	\$765,983	\$664,067	\$238,452	\$531,086	\$144,356	\$386,730	\$52,993
NIA	324,665	313,071	267,187	189,744	14,684	62,758	16,479	22,224	7,181	10,583	3,888	6,695	1,012
NIAAA	140,286	132,906	104,633	75,083	9,147	20,404	18,009	6,209	4,055	6,225	52	6,173	1,154
NIAID	818,970	748,780	593,491	445,617	68,871	79,003	62,131	82,754	10,403	58,904	18,613	40,291	11,286
NIAMS	184,134	180,533	141,116	120,372	9,145	11,599	9,785	26,418	3,213	3,169	280	2,889	432
NCI	1,536,383	1,313,070	852,659	637,940	92,249	122,470	247,837	146,557	66,017	213,428	54,408	159,020	9,885
NICHD	442,033	404,302	318,261	190,741	25,762	101,758	43,290	37,336	5,415	33,628	25,832	7,795	4,103
NIDCD	139,006	135,708	108,917	60,515	4,078	44,324	9,650	11,997	5,144	3,016	—	3,016	282
NIDR	116,592	111,929	99,770	22,801	70,691	6,279	8,093	2,349	1,717	4,127	944	3,183	536
NIDDK	575,344	553,157	449,681	384,688	20,090	44,903	34,399	60,364	8,713	19,531	783	18,748	2,655
NIDA	352,967	320,947	226,637	152,234	25,783	48,620	42,110	25,042	27,158	30,163	8,397	21,766	1,857
NIEHS	231,278	208,799	151,847	71,461	44,658	35,728	26,644	3,678	26,630	20,003	10,143	9,860	2,476

^a Includes all hospitals administered by these institutions.

^b Includes basic health-science departments administered by schools of medicine and medicine/dentistry.

^c Hospitals not administered by institutions classified as higher education or research institutes.

^d Awards to U.S. citizens working abroad as well as to foreign nationals.

^e CC, DRG, OD, and Women's Health Initiative.

Source: Information Systems Branch, DRG
(Continued)

Table 23 (Cont.)

**NIH Awards by NIH Component and
Kind of Performing Institution, Fiscal Year 1993**

(Thousands of Dollars)

NIH component	Total	Domestic nonprofit institutions								Domestic profit institutions			Foreign ^d
		Total	Higher education ^a				Other nonprofit			Total	Research institutes	Other	
			Total	Medical schools ^b	Other health professional schools	Other	Research institutes	Hospitals ^c	Other				
NEI	239,560	231,721	196,907	143,496	16,228	37,183	17,628	13,648	3,539	6,077	62	6,014	1,762
NIGMS	833,489	817,222	729,498	314,138	28,714	386,646	64,926	18,797	4,002	14,234	2,856	11,379	2,033
NHLBI	1,052,221	1,013,322	809,848	663,164	75,956	70,728	69,286	102,943	31,247	35,052	9,428	25,624	3,846
NIMH	450,864	432,861	357,992	213,857	30,099	114,036	23,562	40,544	10,763	15,197	1,274	13,923	2,806
NINDS	496,797	478,505	413,133	336,593	13,190	63,350	24,356	34,667	6,349	11,859	2,232	9,627	6,434
NINR	46,902	46,333	43,755	4,408	38,300	1,048	843	1,051	683	569	—	569	—
FIC	17,398	17,315	15,337	7,330	4,209	3,799	1,352	467	158	—	—	—	84
NCHGR	97,084	90,673	66,533	52,363	1,329	12,841	17,943	5,202	995	6,411	3,077	3,334	—
NCRR	308,314	298,386	257,464	159,581	21,322	76,560	20,316	15,342	5,264	9,577	1,076	8,501	351
NLM	55,483	30,772	23,972	12,917	2,384	8,670	2,102	1,868	2,831	24,710	909	23,802	—
Other ^e	55,809	51,187	34,361	26,787	2,537	5,038	5,240	4,611	6,975	4,622	102	4,520	—

See footnotes on first page of table.

Table 24

NIH Awards by State and Funding Mechanism, Fiscal Year 1993

(Thousands of Dollars)

State	Rank	Total	Research grants				R&D contracts	Research training			Other awards
			Total grants	Project grants	Center grants	Other grants		Total	Individual awards	Institutional awards	
Total		\$8,515,579	\$7,257,005	\$5,731,396	\$910,562	\$615,047	\$869,468	\$359,690	\$62,576	\$297,114	\$29,416
U.S. Total		8,462,585	7,221,078	5,698,672	909,005	613,401	852,928	359,163	62,049	297,114	29,416
Alabama	22	114,707	89,394	64,156	16,278	8,959	21,166	4,135	581	3,554	12
Alaska	48	2,168	2,113	1,832	—	281	—	30	30	—	25
Arizona	27	69,841	64,048	51,817	7,819	4,412	3,398	2,395	651	1,744	—
Arkansas	42	15,518	14,316	10,636	992	2,687	1,036	166	27	139	—
California	1	1,187,046	1,072,849	870,225	134,164	68,460	52,576	59,831	11,250	48,580	1,791
Colorado	17	144,688	133,038	97,499	19,969	15,571	5,384	6,087	1,262	4,825	179
Connecticut	13	209,228	191,967	147,369	23,160	21,438	5,402	11,680	1,574	10,106	180
Delaware	46	4,615	3,778	1,668	—	2,110	625	212	14	197	—
Dist. of Col.	19	128,017	89,198	56,022	5,937	27,239	33,751	3,846	567	3,279	1,222
Florida	20	125,168	113,761	93,545	9,100	11,116	6,330	4,342	648	3,694	734
Georgia	21	117,006	104,162	72,957	18,406	12,799	7,749	4,499	1,285	3,214	597
Hawaii	39	19,602	14,783	10,168	2,390	2,224	4,348	471	28	442	—
Idaho	52	1,085	1,085	878	102	106	—	—	—	—	—
Illinois	10	248,388	222,513	180,141	25,229	17,143	12,532	12,483	2,068	10,415	860
Indiana	24	87,670	79,740	65,511	8,715	5,514	4,772	2,937	582	2,355	220
Iowa	26	85,629	74,908	48,127	21,917	4,865	6,291	4,429	374	4,056	—
Kansas	35	29,579	26,147	21,712	1,830	2,604	2,387	944	137	806	101
Kentucky	31	37,966	32,877	27,196	3,160	2,521	4,357	732	229	503	—
Louisiana	29	55,623	51,949	38,186	9,225	4,538	2,664	956	106	850	53
Maine	41	15,879	14,434	10,596	3,394	445	1,202	243	—	243	—
Maryland	4	563,548	318,593	242,370	42,140	34,083	225,043	19,046	4,027	15,019	866
Massachusetts	3	853,761	743,905	630,708	71,609	41,588	58,934	42,299	7,992	34,307	8,623
Michigan	9	250,848	222,961	175,853	31,207	15,901	13,942	12,839	1,684	11,155	1,106
Minnesota	15	185,055	147,440	124,677	12,534	10,228	29,479	7,723	1,075	6,648	412
Mississippi	43	13,103	9,209	6,855	—	2,355	2,930	964	42	921	—

^a Awards to U.S. citizens working abroad as well as to foreign nationals.

Source: Information Systems Branch, DRG
(Continued)

Table 24 (Cont.)

NIH Awards by State and Funding Mechanism, Fiscal Year 1993

(Thousands of Dollars)

State	Rank	Total	Research grants				R&D contracts	Research training			Other awards
			Total grants	Project grants	Center grants	Other grants		Total	Individual awards	Institutional awards	
Missouri	14	\$186,461	\$162,802	\$131,765	\$20,868	\$10,170	\$11,572	\$11,837	\$1,381	\$10,456	\$250
Montana	47	3,830	3,714	3,160	103	452	—	105	25	80	11
Nebraska	37	24,779	23,226	18,575	3,811	841	1,072	481	108	373	—
Nevada	45	6,968	6,725	6,213	—	512	—	243	187	56	—
New Hampshire	32	33,857	32,283	24,385	1,500	6,397	84	1,490	394	1,096	—
New Jersey	23	96,561	78,659	69,047	4,048	5,564	13,954	3,872	1,162	2,709	77
New Mexico	34	29,844	25,553	16,772	4,909	3,872	3,007	1,190	182	1,007	94
New York	2	918,763	845,833	669,598	117,537	58,698	32,495	37,173	4,360	32,813	3,263
North Carolina	7	340,954	271,719	209,595	41,778	20,346	51,086	16,386	2,393	13,994	1,762
North Dakota	49	2,073	1,964	1,301	—	663	—	109	—	109	—
Ohio	11	225,898	196,741	155,971	20,904	19,866	20,554	7,539	1,354	6,185	1,064
Oklahoma	38	21,729	20,772	17,922	576	2,274	248	709	303	406	—
Oregon	25	86,785	80,717	63,652	13,088	3,977	2,243	3,723	1,083	2,639	102
Pennsylvania	5	523,983	485,709	368,450	62,260	54,999	16,789	20,010	3,761	16,248	1,475
Rhode Island	30	39,284	34,989	28,030	2,252	4,707	3,057	1,103	183	921	134
South Carolina	36	27,094	24,628	19,491	1,988	3,149	1,130	987	180	806	350
South Dakota	50	1,531	1,510	1,212	—	298	—	21	—	21	—
Tennessee	18	140,943	126,881	91,525	25,129	10,226	6,711	7,201	736	6,465	150
Texas	6	409,314	371,450	296,236	40,384	34,830	24,067	11,625	2,792	8,833	2,172
Utah	28	60,811	53,089	45,027	4,990	3,071	6,200	1,522	542	980	—
Vermont	33	32,248	29,494	23,377	3,368	2,750	1,777	977	309	668	—
Virginia	12	224,063	103,828	80,617	11,900	11,312	113,347	6,759	1,041	5,718	129
Washington	8	275,851	236,776	186,878	31,761	18,137	25,649	12,489	2,097	10,392	937
West Virginia	44	9,536	6,687	5,927	257	503	2,640	157	—	157	52
Wisconsin	16	152,253	136,032	106,017	20,095	9,920	8,950	6,859	1,184	5,675	412
Wyoming	51	1,253	1,253	1,077	132	44	—	—	—	—	—
Guam	54	383	383	—	—	383	—	—	—	—	—
Puerto Rico	40	19,232	18,063	6,149	6,088	5,826	—	1,169	58	1,112	—
Virgin Islands	53	567	429	—	—	429	—	138	—	138	—
Foreign ^a		52,993	35,927	32,723	1,557	1,646	16,540	527	527	—	—

See footnote on first page of table.

Table 25

**Average Size of NIH Awards^a by Kind of Award,
Fiscal Years 1984–1993 in Current and Constant Dollars**

(Thousands)

Kind of award and code	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
CURRENT DOLLARS										
Research projects	\$137.3	\$149.1	\$153.7	\$173.9	\$182.0	\$193.0	\$205.3	\$215.1	\$226.6	\$235.6
Traditional (R01)	123.5	134.4	137.1	152.2	155.7	165.5	176.8	189.1	199.8	208.7
Research program projects (P01)	717.9	794.0	793.0	849.2	873.6	904.9	954.4	944.2	977.1	993.6
SBIR (R43, R44, U43)	85.9	92.7	99.2	112.3	117.5	112.8	111.9	113.8	111.5	118.7
Other (P41, ^b P42, R22, R23, R29, R35, R37, R55, ^c U01, U19)	74.3	80.3	109.0	151.7	183.1	192.3	206.2	208.3	221.0	232.7
Research centers	849.7	877.1	854.2	944.6	950.3	1,014.1	1,027.7	1,064.2	1,090.1	1,061.7
Specialized (P50, U54)	857.7	850.4	811.6	903.9	887.5	970.4	992.2	1,083.4	1,182.6	1,183.6
Core grants (P30)	832.2	908.7	894.7	976.4	964.5	1,009.0	975.9	970.4	1,008.5	1,017.9
General clinical (M01)	1,079.3	1,121.1	1,114.7	1,175.2	1,309.7	1,385.6	1,447.6	1,567.1	1,687.7	1,697.3
Comprehensive (P60)	1,106.0	1,294.5	1,227.6	1,362.6	1,400.4	1,366.1	1,363.2	1,377.0	1,381.0	1,358.1
Biotechnology resource (P41, U41)	535.8	557.6	534.5	555.9	565.1	612.9	557.6	601.2	646.4	687.2
Primate research center (P51)	3,224.9	3,459.4	3,409.4	4,613.2	4,757.1	5,074.2	5,239.9	5,267.3	6,027.3	5,516.7
Animal resource (P40, U40, U42)	159.8	159.9	247.3	256.9	287.2	285.5	300.8	327.2	368.3	415.2
Other (G12, P20)	–	681.6	676.7	692.9	639.9	889.7	944.0	813.7	535.1	448.0
Other research	82.8	97.8	94.5	94.5	102.4	111.9	119.4	118.8	143.2	149.3
Biomedical research support and development (S07, S10)	101.2	129.9	123.9	121.5	113.4	111.2	99.3	71.6	97.6	190.4
RCPAs (K)	45.7	57.5	59.5	63.0	64.7	67.1	73.1	82.9	86.3	88.7
Cooperative clinical (R10, U10)	156.3	171.6	209.6	229.6	256.9	293.5	259.4	283.5	381.2	384.6
Minority biomedical support (S06, S11, S14)	393.0	365.4	340.9	397.7	414.4	425.9	408.8	444.8	468.4	459.9
Other ^d	64.9	75.3	72.2 ^e	64.5	86.8	105.4	123.2	115.7	125.8	129.7
Contracts^f	343.2	312.9	356.4	433.1	451.4	501.3	536.7	533.3	581.7	596.8
Training	54.9	66.5	68.1	69.6	73.0	79.6	83.1	84.2	84.7	84.4
Individual awards (F's)	19.1	23.0	23.0	22.5	22.7	24.3	24.2	24.6	24.9	25.3
Institutional awards (T's except T09)	99.4	127.1	127.4	137.9	140.6	149.4	164.7	168.7	168.0	167.2

^a Represents total costs, except that supplements to prior years' grants are excluded.

^b P41 for NIGMS only.

^c R55 for FY 1993 only; for prior years, R55 included below under Other research.

^d D42, R03, R12, R13, R15, R18, R19, R21, R24, R25, R26, R55 (prior to FY 1993), S15, U13, U18, U26, and U45 for all ICDs. Also, for DRR (prior to 1990) and NLM only, includes P41, P50, R01, R23, R29, R43, R44, U24, and U50. For NCRR only, includes U24. For FIC only, includes U01.

^e For NCNR in FY 1986 only, includes P01, R01, and R23.

^f Excludes contracts awarded by NIAAA, NIDA, and NIMH in years prior to FY 1993 because data are not available.

^g FY 1984=100. Constant dollars are based on the Biomedical R&D Price Index (see inside back cover).

Source: Information Systems Branch, DRG
(Continued)

Table 25 (Cont.)

**Average Size of NIH Awards^a by Kind of Award,
Fiscal Years 1984–1993 in Current and Constant Dollars**

(Thousands)

Kind of award and code	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
<i>CONSTANT DOLLARS^g</i>										
Research projects	\$137.3	\$141.7	\$140.1	\$150.6	\$150.1	\$151.3	\$152.5	\$152.3	\$153.2	\$153.6
Traditional (R01)	123.5	127.8	124.9	131.8	128.3	129.7	131.4	133.9	135.1	136.0
Research program projects (P01)	717.9	754.7	722.9	735.3	720.2	709.2	709.0	668.7	660.7	647.7
SBIR (R43, R44, U43)	85.9	88.1	90.4	97.2	96.9	88.4	83.1	80.6	75.4	77.4
Other (P41, ^b P42, R22, R23, R29, R35, R37, R55, ^c U01, U19)	74.3	76.3	99.4	131.3	151.0	150.7	153.2	147.5	149.4	151.7
Research centers	\$49.7	\$33.7	\$78.7	\$17.8	\$83.4	\$79.8	\$76.5	\$75.7	\$73.1	\$69.2
Specialized (P50, U54)	857.7	808.3	739.9	782.6	731.6	760.5	737.1	767.3	799.6	771.6
Core grants (P30)	832.2	863.8	815.6	845.4	795.2	790.7	725.1	687.3	681.9	663.6
General clinical (M01)	1,079.3	1,065.7	1,016.1	1,017.5	1,079.7	1,085.9	1,075.5	1,109.8	1,141.1	1,106.4
Comprehensive (P60)	1,106.0	1,230.5	1,119.0	1,179.7	1,154.5	1,070.6	1,012.8	975.2	933.8	885.4
Biotechnology resource (P41, U41)	535.8	530.1	487.2	481.3	465.9	480.3	414.2	425.8	437.1	448.0
Primate research center (P51)	3,224.9	3,288.4	3,107.9	3,994.2	3,921.8	3,976.7	3,893.0	3,730.4	4,075.3	3,596.3
Animal resource (P40, U40, U42)	159.8	152.0	225.4	222.4	236.8	223.7	223.5	231.7	249.0	270.7
Other (G12, P20)	–	647.9	616.9	599.9	527.6	697.3	701.3	576.3	361.8	292.0
Other research	82.8	92.9	86.1	81.8	84.4	87.7	88.7	84.1	96.8	97.3
Biomedical research support and development (S07, S10)	101.2	123.5	112.9	105.2	93.5	87.2	73.7	50.7	66.0	124.1
RCPAs (K)	45.7	54.7	54.3	54.6	53.3	52.6	54.3	58.7	58.4	57.8
Cooperative clinical (R10, U10)	156.3	163.2	191.1	198.8	211.8	230.0	192.7	200.8	257.7	250.7
Minority biomedical support (S06, S11, S14)	393.0	347.3	310.7	344.3	341.6	333.8	303.7	315.0	316.7	299.8
Other ^d	64.9	71.6	65.8 ^e	55.8	71.5	82.6	91.5	81.9	85.1	84.6
Contracts^f	343.2	297.4	324.9	374.9	372.1	392.9	398.8	377.7	393.3	389.0
Training	54.9	63.2	62.1	60.3	60.2	62.4	61.7	59.6	57.3	55.0
Individual awards (F's)	19.1	21.9	20.9	19.5	18.7	19.0	18.0	17.4	16.8	16.5
Institutional awards (T's except T09)	99.4	120.8	116.2	119.4	115.9	117.1	122.3	119.5	113.6	109.0

See footnotes on first page of table.

Table 26

Average Size of NIH Awards^a by Kind of Award and NIH Component, Fiscal Year 1984, and Fiscal Year 1993 in Current and Constant Dollars^b

(Thousands)

Kind of award and code	Total			NIA			NIAAA			NIAID		
	1984	1993		1984	1993		1984	1993		1984	1993	
		Current	Constant		Current	Constant		Current	Constant		Current	Constant
Research projects	\$137.3	\$235.6	\$153.6	\$156.5	\$267.8	\$174.6	\$107.2	\$234.4	\$152.8	\$129.3	\$255.1	\$166.3
Traditional (R01)	123.5	208.7	136.0	112.2	205.5	133.9	117.9	243.3	158.6	124.6	207.0	135.0
Research program projects (P01)	717.9	993.6	647.7	543.1	833.1	543.1	—	998.7	651.0	518.0	611.6	398.7
SBIR (R43, R44)	85.9	118.7	77.4	70.0	149.4	97.4	44.9	138.0	89.9	64.1	106.7	69.5
Other (P42, R22, R23, R29, R35, R37, R55, ^c U01, U19)	74.3	232.7	151.7	68.7	286.9	187.0	49.1	151.3	98.7	96.6	370.4	241.5
Research centers	849.7	1,061.7	692.1	615.8	963.5	628.1	1,180.1	1,331.0	867.6	326.5	552.1	359.9
Specialized (P50, U54)	857.7	1,183.6	771.6	725.4	1,262.0	822.7	1,180.1	1,331.0	867.6	326.5	430.5	280.6
Core grants (P30)	832.2	1,017.9	663.6	342.0	855.7	557.8	—	—	—	—	604.2	393.9
General clinical (M01)	1,079.3	1,697.3	1,106.4	—	—	—	—	—	—	—	—	—
Comprehensive (P60)	1,106.0	1,358.1	885.4	—	1,246.7	812.7	—	—	—	—	—	—
Biotechnology resource (P41, U41)	535.8	687.2	448.0	—	—	—	—	—	—	—	—	—
Primate research center (P51)	3,224.9	5,516.7	3,596.3	—	—	—	—	—	—	—	—	—
Animal resource (P40, U40, U42)	159.8	415.2	270.7	—	—	—	—	—	—	—	—	—
Other (G12, P20)	—	448.0	292.0	—	380.0	247.7	—	—	—	—	—	—
Other research	82.8	149.3	97.3	42.5	82.8	54.0	46.0	171.9	112.1	34.1	70.2	45.7
Biomedical research support and development (S07, S10)	45.7	88.7	57.8	—	—	—	—	—	—	—	—	—
RCPAs (K)	101.2	190.4	124.1	54.5	100.2	65.3	48.0	86.1	56.2	39.3	75.4	49.1
Cooperative clinical (R10, U10)	156.3	384.6	250.7	—	—	—	—	832.7	542.8	—	—	—
Minority biomedical support (S06, S11, S14)	393.0	459.9	299.8	—	—	—	—	—	—	—	—	—
Other ^d	64.9	129.7	84.6	21.9	45.8	29.9	36.3	64.8	42.3	12.0	63.3	41.3
Contracts^e	343.2^f	596.8^f	389.0^f	404.7	554.9	361.8	—	517.2	337.2	343.4	950.6	619.7
Training	54.9	84.4	55.0	58.1	118.7	77.4	41.2	85.9	56.0	53.9	89.3	58.2
Individual awards (F's)	19.1	25.3	16.5	17.8	25.6	16.7	16.1	19.4	12.7	18.2	28.2	18.4
Institutional awards (T's)	99.4	167.2	109.0	85.0	168.3	109.7	76.3	149.0	97.1	100.9	156.2	101.8

^a Represents total costs, except that supplements to prior years' grants are excluded.

^b FY 1984=100. Constant dollars are based on the Biomedical R&D Price Index (see back inside cover).

^c R55 for FY 1993 only.

^d R03, R12, R13, R15, R18, R21, R24, R25, R26, S15, U13, U18, U26, and U45 for all ICDs. Also, for DRR (in 1984) and NLM only, includes P41, P50, R01, R23, R29, R43, R44, U24, and U50.

For NCRR only, includes U24. For FIC only, includes U01.

^e Excludes contracts awarded by NIAAA, NIDA, and NIMH in FY 1984. Data are not available for years prior to FY 1993.

^f DRS, DCRT, and Division of Safety for 1984, DRG and Women's Health Initiative for 1993, and CC and OD for all years included in totals only.

Source: Information Systems Branch, DRG
(Continued)

Table 26 (Cont.)

**Average Size of NIH Awards^a by Kind of Award and NIH
Component, Fiscal Year 1984, and Fiscal Year 1993 in
Current and Constant Dollars^b**

(Thousands)

Kind of award and code	NIAMS			NCI			NICHD			NIDCD		
	1984	1993		1984	1993		1984	1993		1984	1993	
		Current	Constant		Current	Constant		Current	Constant		Current	Constant
Research projects	\$126.0	\$205.0	\$133.6	\$159.7	\$269.7	\$175.8	\$126.0	\$202.2	\$131.8	—	\$208.9	\$136.2
Traditional (R01)	120.9	200.2	130.5	126.9	217.2	141.6	118.7	182.3	118.8	—	190.4	124.1
Research program projects (P01)	637.8	977.7	637.3	841.4	1,140.6	743.5	515.4	817.1	532.7	—	1,009.3	657.9
SBIR (R43, R44)	81.7	111.5	72.7	81.3	94.5	61.6	94.9	91.7	59.8	—	142.9	93.1
Other (P42, R22, R23, R29, R35, R37, R55, ^c U01, U19)	49.9	150.5	98.1	103.4	276.2	180.0	57.3	177.4	115.7	—	94.5	61.6
Research centers	653.6	900.1	586.8	1,350.0	1,415.4	922.7	561.0	635.7	414.4	—	1,134.2	739.4
Specialized (P50, U54)	—	882.4	575.2	1,108.0	1,968.1	1,283.0	696.6	951.2	620.1	—	1,029.9	671.4
Core grants (P30)	—	—	—	1,367.2	2,191.5	1,428.6	498.1	514.7	335.5	—	—	—
General clinical (M01)	—	—	—	—	—	—	—	—	—	—	—	—
Comprehensive (P60)	685.1	1,000.7	652.3	—	—	—	—	—	—	—	1,290.5	841.3
Biotechnology resource (P41, U41)	—	—	—	—	—	—	—	—	—	—	—	—
Primate research center (P51)	—	—	—	—	—	—	—	—	—	—	—	—
Animal resource (P40, U40, U42)	—	—	—	—	—	—	—	—	—	—	—	—
Other (G12, P20)	274.7	484.3	315.7	—	181.6	118.4	—	104.4	68.1	—	—	—
Other research	50.5	72.9	47.6	119.3	211.8	138.1	37.2	184.5	120.2	—	65.2	42.5
Biomedical research support and development (S07, S10)	—	—	—	—	—	—	—	—	—	—	—	—
RCPAs (K)	43.4	76.9	50.1	43.2	86.3	56.3	41.1	90.3	58.9	—	78.2	51.0
Cooperative clinical (R10, U10)	—	—	—	151.4	484.3	315.7	17.3	487.5	317.8	—	1,154.5	752.6
Minority biomedical support (S06, S11, S14)	—	—	—	—	—	—	—	—	—	—	—	—
Other ^d	97.6	62.8	40.9	101.5	54.7	35.7	9.6	74.8	48.8	—	33.8	22.0
Contracts^e	376.8	184.7	120.4	405.7	542.9	353.9	175.7	541.6	353.1	—	417.4	272.1
Training	47.3	70.7	46.1	70.6	104.1	67.8	48.9	69.4	45.2	—	73.6	48.0
Individual awards (F's)	20.7	27.4	17.8	17.8	25.6	16.7	18.4	26.9	17.5	—	24.7	16.1
Institutional awards (T's)	60.1	97.8	63.7	127.9	179.0	116.7	85.7	107.3	70.0	—	130.6	85.1

See footnotes on first page of table.

(Continued)

Table 26 (Cont.)

**Average Size of NIH Awards^a by Kind of Award and NIH
Component, Fiscal Year 1984, and Fiscal Year 1993 in
Current and Constant Dollars^b**

(Thousands)

Kind of award and code	NIDR			NIDDK			NIDA			NIEHS		
	1984	1993		1984	1993		1984	1993		1984	1993	
		Current	Constant		Current	Constant		Current	Constant		Current	Constant
Research projects	\$108.0	\$190.3	\$124.1	\$130.8	\$216.5	\$141.1	\$140.2	\$269.2	\$175.5	\$135.8	\$271.5	\$177.0
Traditional (R01)	109.5	180.1	117.4	126.4	193.3	126.0	138.9	268.2	174.8	115.1	191.5	124.8
Research program projects (P01)	387.8	676.5	441.0	719.6	921.9	601.0	636.9	865.8	564.4	734.3	745.5	486.0
SBIR (R43, R44)	86.6	162.0	105.6	110.5	139.3	90.8	118.7	191.3	124.7	61.4	119.7	78.0
Other (P42, R22, R23, R29, R35, R37, R55, ^c U01, U19)	48.4	138.5	90.3	74.4	219.0	142.7	55.7	244.6	159.4	99.1	582.3	379.6
Research centers	972.6	635.1	414.0	867.0	760.7	495.9	601.0	1,154.7	752.7	938.5	952.0	620.6
Specialized (P50, U54)	972.6	724.1	472.0	1,308.3	625.2	407.6	601.0	1,165.5	759.7	—	—	—
Core grants (P30)	—	568.8	370.8	621.2	809.3	527.6	—	—	—	938.5	960.7	626.3
General clinical (M01)	—	—	—	—	—	—	—	—	—	—	—	—
Comprehensive (P60)	—	—	—	1,436.0	1,774.7	1,156.9	—	—	—	—	—	—
Biotechnology resource (P41, U41)	—	—	—	—	—	—	—	—	—	—	—	—
Primate research center (P51)	—	—	—	—	—	—	—	—	—	—	—	—
Animal resource (P40, U40, U42)	—	—	—	—	—	—	—	—	—	—	—	—
Other (G12, P20)	—	386.5	252.0	—	31.2	20.3	—	917.9	598.4	—	794.9	518.2
Other research	22.1	81.7	53.2	42.6	74.6	48.7	77.1	367.0	239.2	39.2	597.8	389.7
Biomedical research support and development (S07, S10)	—	—	—	—	—	—	—	—	—	—	—	—
RCPAs (K)	41.9	155.6	101.4	45.5	88.2	57.5	54.1	99.5	64.9	42.2	93.8	61.2
Cooperative clinical (R10, U10)	—	—	—	—	—	—	—	—	—	—	—	—
Minority biomedical support (S06, S11, S14)	—	—	—	—	—	—	—	—	—	—	—	—
Other ^d	15.7	34.8	22.7	13.3	38.5	25.1	119.2	540.1	352.1	10.3	1,017.8	663.5
Contracts^e	205.6	310.7	202.5	257.2	626.8	408.6	—	646.2	421.2	364.4	544.1	354.7
Training	46.1	77.3	50.4	44.4	80.5	52.5	40.2	73.5	47.9	98.8	111.5	72.7
Individual awards (F's)	19.7	28.0	18.2	18.9	29.4	19.2	16.5	19.3	12.6	17.9	28.2	18.4
Institutional awards (T's)	70.6	99.6	64.9	70.8	130.0	84.7	95.3	191.0	124.5	161.8	196.7	128.3

See footnotes on first page of table.

(Continued)

Table 26 (Cont.)

**Average Size of NIH Awards^a by Kind of Award and NIH
Component, Fiscal Year 1984, and Fiscal Year 1993 in
Current and Constant Dollars^b**

(Thousands)

Kind of award and code	NEI			NIGMS			NHLBI			NIMH		
	1984	1993		1984	1993		1984	1993		1984	1993	
		Current	Constant		Current	Constant		Current	Constant		Current	Constant
Research projects	\$116.5	\$186.8	\$121.8	\$126.4	\$195.3	\$127.3	\$163.0	\$273.5	\$178.3	\$128.9	\$229.4	\$149.5
Traditional (R01)	118.8	189.7	123.7	122.8	192.5	125.5	136.3	228.5	149.0	119.3	239.9	156.4
Research program projects (P01)	-	-	-	503.7	754.2	491.7	1,008.6	1,323.5	862.8	550.6	961.2	626.6
SBIR (R43, R44)	98.9	136.6	89.1	90.7	111.6	72.8	82.5	151.1	98.5	129.0	128.9	84.0
Other (P42, R22, R23, R29, R35, R37, R55, ^c U01, U19)	52.7	175.7	114.5	50.3	184.0	120.0	49.7	210.3	137.1	230.6	179.4	117.0
Research centers	193.2	263.4	171.7	547.3	864.8	563.8	1,420.7	1,423.1	927.7	461.7	1,151.9	750.9
Specialized (P50, U54)	868.5	-	-	547.3	864.8	563.8	1,429.3	1,372.5	894.7	461.7	1,294.8	844.0
Core grants (P30)	166.1	263.4	171.7	-	-	-	-	-	-	-	822.8	536.4
General clinical (M01)	-	-	-	-	-	-	-	-	-	-	-	-
Comprehensive (P60)	-	-	-	-	-	-	1,380.2	1,716.1	1,118.7	-	-	-
Biotechnology resource (P41, U41)	-	-	-	-	-	-	-	-	-	-	-	-
Primate research center (P51)	-	-	-	-	-	-	-	-	-	-	-	-
Animal resource (P40, U40, U42)	-	-	-	-	-	-	-	-	-	-	-	-
Other (G12, P20)	-	-	-	-	-	-	-	-	-	-	356.4	232.3
Other research	26.9	146.8	95.7	23.3	234.4	152.8	71.5	89.6	58.4	46.8	129.3	84.3
Biomedical research support and development (S07, S10)	-	-	-	-	-	-	-	-	-	-	-	-
RCPAs (K)	40.3	77.5	50.5	34.9	60.5	39.5	47.0	82.2	53.6	54.0	101.3	66.0
Cooperative clinical (R10, U10)	-	169.5	110.5	-	-	-	1,411.0	330.7	215.6	244.3	472.1	307.8
Minority biomedical support (S06, S11, S14)	-	-	-	-	459.9	299.8	-	-	-	-	-	-
Other ^d	20.7	43.7	28.5	10.3	100.7	65.7	181.4	86.0	56.1	21.9	146.2	95.3
Contracts^e	180.8	414.9	270.5	731.3	914.6	596.2	381.0	688.6	448.9	-	347.6	226.6
Training	33.9	53.9	35.1	69.6	102.5	66.8	59.3	102.3	66.7	48.4	69.2	45.1
Individual awards (F's)	17.8	26.3	17.1	17.4	25.7	16.8	18.8	29.3	19.1	14.1	16.8	11.0
Institutional awards (T's)	80.9	176.4	115.0	150.8	234.2	152.7	92.8	174.6	113.8	70.6	139.3	90.8

See footnotes on first page of table.

(Continued)

Table 26 (Cont.)

**Average Size of NIH Awards^a by Kind of Award and NIH
Component, Fiscal Year 1984, and Fiscal Year 1993 in
Current and Constant Dollars^b**

(Thousands)

Kind of award and code	NINDS			FIC			NCHGR		
	1984	1993		1984	1993		1984	1993	
		Current	Constant		Current	Constant		Current	Constant
Research projects	\$126.0	\$230.4	\$150.2	—	—	—	—	\$378.2	\$246.6
Traditional (R01)	111.0	209.9	136.8	—	—	—	—	273.5	178.3
Research program projects (P01)	565.3	873.6	569.5	—	—	—	—	2,631.9	1,715.7
SBIR (R43, R44)	107.2	139.3	90.8	—	—	—	—	132.0	86.0
Other (P42, R22, R23, R29, R35, R37, R55, ^c U01, U19)	48.3	99.2	64.7	—	—	—	—	175.6	114.5
Research centers	709.4	706.3	460.5	—	—	—	—	2,586.7	1,686.2
Specialized (P50, U54)	709.4	929.5	606.0	—	—	—	—	3,694.7	2,408.6
Core grants (P30)	—	—	—	—	—	—	—	1,957.8	1,276.3
General clinical (M01)	—	—	—	—	—	—	—	—	—
Comprehensive (P60)	—	—	—	—	—	—	—	—	—
Biotechnology resource (P41, U41)	—	—	—	—	—	—	—	1,183.4	771.5
Primate research center (P51)	—	—	—	—	—	—	—	—	—
Animal resource (P40, U40, U42)	—	—	—	—	—	—	—	—	—
Other (G12, P20)	—	383.9	250.3	—	—	—	—	631.7	411.8
Other research	40.4	76.5	49.9	\$7.5	\$37.2	\$24.3	—	77.0	50.2
Biomedical research support and development (S07, S10)	—	—	—	—	—	—	—	—	—
RCPAs (K)	41.2	79.5	51.8	—	—	—	—	73.8	48.1
Cooperative clinical (R10, U10)	—	1,073.7	699.9	—	—	—	—	—	—
Minority biomedical support (S06, S11, S14)	—	—	—	—	—	—	—	—	—
Other ^d	30.3	34.5	22.5	7.5	37.2	24.3	—	78.0	50.8
Contracts^e	243.8	373.0	243.1	80.8	—	—	—	—	—
Training	33.2	57.0	37.1	34.5	43.1	28.1	—	54.7	35.6
Individual awards (F's)	18.1	26.5	17.3	34.5	30.8	20.1	—	27.3	17.8
Institutional awards (T's)	73.8	136.5	89.0	—	165.3	107.8	—	123.1	80.2

See footnotes on first page of table.

(Continued)

Table 26 (Cont.)

**Average Size of NIH Awards^a by Kind of Award and NIH
Component, Fiscal Year 1984, and Fiscal Year 1993 in
Current and Constant Dollars^b**

(Thousands)

Kind of award and code	NCNR/NINR			NCRR			NLM		
	1984	1993		1984	1993		1984	1993	
		Current	Constant		Current	Constant		Current	Constant
Research projects	-	\$215.7	\$140.6	-	\$155.8	\$101.6	-	-	-
Traditional (R01)	-	254.3	165.8	-	190.1	123.9	-	-	-
Research program projects (P01)	-	-	-	-	311.3	203.0	-	-	-
SBIR (R43, R44)	-	71.1	46.4	-	89.0	58.0	-	-	-
Other (P42, R22, R23, R29, R35, R37, R55, ^c U01, U19)	-	103.3	67.3	-	97.8	63.8	-	-	-
Research centers	-	249.7	162.7	\$811.0	1,241.8	809.5	-	-	-
Specialized (P50, U54)	-	566.5	369.3	-	-	-	-	-	-
Core grants (P30)	-	-	-	-	-	-	-	-	-
General clinical (M01)	-	-	-	1,079.3	1,697.3	1,106.4	-	-	-
Comprehensive (P60)	-	-	-	-	-	-	-	-	-
Biotechnology resource (P41, U41)	-	-	-	535.8	669.8	436.7	-	-	-
Primate research center (P51)	-	-	-	3,224.9	5,516.7	3,596.3	-	-	-
Animal resource (P40, U40, U42)	-	-	-	159.8	415.2	270.7	-	-	-
Other (G12, P20)	-	122.9	80.1	-	1,138.7	742.3	-	-	-
Other research	-	98.1	64.0	128.9	120.6	78.6	\$67.2	\$182.9	\$119.3
Biomedical research support and development (S07, S10)	-	-	-	101.2	190.4	124.1	-	-	-
RCPAs (K)	-	76.4	49.8	47.5	69.9	45.6	39.5	-	-
Cooperative clinical (R10, U10)	-	-	-	-	-	-	-	-	-
Minority biomedical support (S06, S11, S14)	-	-	-	393.0	-	-	-	-	-
Other ^d	-	114.2	74.4	100.2	94.3	61.4	69.0	182.9	119.3
Contracts^e	-	-	-	724.4	418.4	272.7	184.8	321.0	209.3
Training	-	28.7	18.7	54.5	145.2	94.6	98.3	282.5	184.2
Individual awards (F's)	-	13.4	8.7	20.6	30.0	19.5	-	43.0	28.0
Institutional awards (T's)	-	140.4	91.5	64.6	169.9	110.7	98.3	402.3	262.3

See footnotes on first page of table.

Table 27

NIH Awards to U.S. Institutions of Higher Education by Component and Funding Mechanism, Fiscal Year 1993

(Dollars in Thousands)

Major component	Total		Research grants							
	Amount	Percent	Total grants		Project grants		Center grants		Other grants	
			Number	Amount	Number	Amount	Number	Amount	Number	Amount
Total – all institutions^a	\$8,515,579	100.0%	30,041	\$7,257,005	24,676	\$5,731,396	925	\$910,562	4,440	\$615,047
Total – U.S. higher education	6,262,997	73.5	23,687	5,647,817	19,462	4,466,666	763	742,803	3,462	438,347
Health professional school components	4,905,253	57.6	17,600	4,415,844	14,429	3,467,926	622	630,205	2,549	317,713
Medicine ^b	4,285,828	50.3	15,234	3,898,445	12,635	3,047,163	557	580,924	2,042	270,359
Public health	223,388	2.6	463	157,386	388	139,050	10	7,948	65	10,387
Hospitals ^c	62,469	0.7	208	59,137	168	41,649	8	10,485	32	7,003
Dentistry	89,877	1.1	479	84,690	317	59,693	23	14,573	139	10,423
Veterinary medicine	70,796	0.8	343	63,498	267	51,795	3	7,516	73	4,188
Pharmacy	81,115	1.0	401	73,827	319	63,156	7	4,928	75	5,743
Other	91,781	1.1	472	78,860	335	65,420	14	3,831	123	9,610
Schools of A&S and graduate schools	944,251	11.1	4,578	868,686	3,816	724,103	74	53,673	688	90,910
Other components	413,493	4.9	1,509	363,287	1,217	274,637	67	58,926	225	29,725
Organized research units	176,838	2.1	528	159,628	423	122,658	38	28,501	67	8,468
Engineering	51,136	0.6	240	44,925	198	38,730	12	3,061	30	3,135
Agriculture	68,154	0.8	380	63,754	352	59,842	5	1,859	23	2,053
University-wide	18,554	0.2	48	7,616	9	1,516	3	3,639	36	2,461
Other	98,810	1.2	313	87,365	235	51,892	9	21,866	69	13,607

^a Includes foreign.

^b Includes hospitals and basic health-science departments administered by schools of medicine or medicine/dentistry.

^c Hospitals administered by institutions of higher education (e.g., Univ. of Texas System's M.D. Anderson Hospital and Tumor Institute). Excludes hospitals administered by medical schools.

Source: Information Systems Branch, DRG
(Continued)

Table 27 (Cont.)

NIH Awards to U.S. Institutions of Higher Education by Component and Funding Mechanism, Fiscal Year 1993

(Dollars in Thousands)

Major component	R&D contracts		Research training					Other awards	
	Number	Amount	Total amount	Individual awards		Institutional awards		Number	Amount
				Number	Amount	Number	Amount		
Total – all institutions ^a	1,457	\$869,468	\$359,690	2,471	\$62,576	1,812	\$297,114	80	\$29,416
Total – U.S. higher education	440	273,218	322,493	2,101	52,265	1,640	270,228	62	19,469
Health professional school components	364	233,654	240,349	1,357	34,455	1,261	205,893	47	15,406
Medicine ^b	294	167,593	209,106	1,119	29,572	1,073	179,534	33	10,684
Public health	33	48,710	13,484	30	965	59	12,519	10	3,808
Hospitals ^c	5	2,019	780	11	244	7	536	2	533
Dentistry	3	580	4,386	9	250	43	4,136	1	220
Veterinary medicine	6	3,668	3,630	42	1,251	25	2,379	–	–
Pharmacy	14	4,039	3,249	21	458	19	2,790	–	–
Other	9	7,045	5,715	125	1,715	35	4,000	1	160
Schools of A&S and graduate schools	20	9,571	64,958	609	14,360	296	50,597	5	1,037
Other components	56	29,993	17,187	135	3,450	83	13,737	10	3,025
Organized research units	17	9,847	5,676	46	1,041	26	4,635	7	1,687
Engineering	6	3,249	2,962	22	681	15	2,281	–	–
Agriculture	3	573	3,828	43	1,030	16	2,798	–	–
University-wide	15	9,447	608	5	136	6	472	2	883
Other	15	6,877	4,113	19	562	20	3,551	1	455

See footnotes on first page of table.

Table 28

**NIH Awards to U.S. Medical Schools^a by
Funding Mechanism,^b Fiscal Years 1984–1993**

(Dollars in Thousands)

Funding mechanism	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
<i>AMOUNT</i>										
Total	\$2,002,341	\$2,346,219	\$2,430,659	\$2,867,551	\$3,081,446	\$3,350,579	\$3,566,892	\$3,871,081	\$4,179,643	\$4,285,828
Research grants	1,813,225	2,098,946	2,177,571	2,573,513	2,794,613	3,052,029	3,226,787	3,524,806	3,817,001	3,898,445
R&D contracts ^b	76,247	90,604	108,832	136,024	125,396	112,620	137,704	120,545	135,737	167,593
Research training	111,270	143,798	138,734	152,148	158,275	167,393	190,777	203,164	208,609	209,106
Individual awards	17,559	22,341	20,056	21,684	21,356	21,851	25,425	28,082	28,696	29,572
Institutional awards	93,711	121,456	118,679	130,464	136,919	145,542	165,353	175,082	179,914	179,534
Construction grants	700	10,701	3,787	3,736	–	–	2,085	11,340	10,114	2,244
Other awards	898	2,170	1,735	2,130	3,162	18,538	9,538	11,226	8,181	8,440
<i>NUMBER</i>										
Research grants	12,000	12,805	13,024	13,787	14,235	14,522	14,604	15,250	15,463	15,234
R&D contracts ^b	326	326	346	337	328	293	313	296	286	294
Research training	1,862	1,879	1,754	1,857	1,846	1,799	1,964	2,117	2,163	2,192
Individual awards	905	939	837	909	889	841	982	1,073	1,093	1,119
Institutional awards	957	940	917	948	957	958	982	1,044	1,070	1,073
Construction grants	2	23	18	18	–	–	3	5	7	6

^a Includes hospitals and basic health-science departments administered by schools of medicine or medicine/dentistry.

^b Excludes contracts awarded by NIAAA, NIDA, NIMH to medical schools in FY 1984–1992. Data are not available for years prior to FY 1993.

Source: Information Systems Branch, DRG

Table 29

NIH Research Grants^a by NIH Component and Type, Fiscal Year 1993

(Dollars in Thousands)

NIH component	Total number ^b	Total		New		Continuation				Supplemental			
						Competing		Noncompeting		Competing		Noncompeting	
		Number ^c	Amount	Number	Amount	Number	Amount	Number	Amount	Number ^b	Amount	Number ^b	Amount
Total	30,975	30,041	\$7,257,005	5,145	\$808,619	2,798	\$873,987	21,433	\$5,442,034	152	\$28,843	1,447	\$103,521
NIA	1,184	1,121	303,944	182	33,184	67	17,975	827	244,375	27	5,229	81	3,181
NIAAA	550	533	132,283	90	11,541	49	19,768	389	99,435	3	780	19	759
NIAID	2,809	2,751	664,952	533	98,781	248	76,054	1,929	477,478	9	1,534	90	11,105
NIAMS	859	833	175,112	155	20,034	72	21,318	597	132,360	2	68	33	1,331
NCI	4,376	4,201	1,198,922	860	127,200	410	152,911	2,829	881,293	8	5,624	269	31,895
NICHD	1,817	1,740	374,052	292	37,961	166	44,618	1,218	282,014	5	459	136	8,999
NIDCD	637	634	130,466	118	15,220	54	13,810	450	100,870	2	223	13	343
NIDR	617	587	107,764	101	12,227	45	11,248	425	81,952	–	–	46	2,337
NIDDK	2,602	2,488	532,362	383	56,469	199	55,834	1,869	412,712	1	2	150	7,344
NIDA	971	959	295,525	171	34,018	107	29,348	661	227,525	3	137	29	4,497
NIEHS	520	514	168,542	87	15,203	46	13,191	364	136,900	9	1,746	14	1,502
NEI	1,253	1,249	226,267	143	19,850	137	29,987	941	172,445	–	–	32	3,985
NIGMS	3,828	3,794	735,215	511	67,892	451	109,276	2,715	554,282	17	2,310	134	1,454
NHLBI	3,461	3,287	891,941	528	104,534	282	98,755	2,459	679,767	4	601	188	8,283
NIMH	1,775	1,760	408,674	295	48,057	164	51,010	1,263	304,587	6	384	47	4,637
NINDS	2,139	2,096	464,716	322	53,388	217	57,225	1,531	351,325	8	891	61	1,888
NINR	252	226	42,839	70	10,269	9	3,000	139	28,124	2	174	32	1,272
FIC	99	99	3,655	63	2,806	2	48	32	757	–	–	2	45
NCHGR	231	224	95,171	54	18,085	21	17,137	139	57,006	3	1,104	14	1,839
NCRR	934	885	292,570	173	20,687	49	50,840	617	208,491	43	7,577	52	4,974
NLM	61	60	12,033	14	1,212	3	632	39	8,337	–	–	5	1,852

^a Represents awards, not obligations.^b Each supplemental grant is counted separately.^c Supplements are counted only when the parent award is from prior years' funds; such supplements, if multiple, are counted as one.

Source: Information Systems Branch, DRG

Table 30

NIH Research Grants^a by Kind and Type, Fiscal Year 1993

(Dollars in Thousands)

Kind of grant and code	Total num- ber ^b	Total		New		Continuation				Supplemental			
						Competing		Noncompeting		Competing		Noncompeting	
		Number ^c	Amount	Number	Amount	Number	Amount	Number	Amount	Number ^b	Amount	Number ^b	Amount
Total	30,975	30,041	\$7,257,005	5,145	\$808,619	2,798	\$873,987	21,433	\$5,442,034	152	\$28,843	1,447	\$103,521
Research projects	25,455	24,676	5,731,396	3,611	663,345	2,538	672,398	18,031	4,320,995	79	11,589	1,196	63,069
Traditional (R01)	18,634	18,113	3,723,254	2,224	443,449	1,876	400,267	13,667	2,838,173	33	4,920	834	36,446
Research program projects (P01)	923	837	799,175	74	64,804	89	93,188	633	627,412	19	2,407	108	11,364
SBIR (R43, R44, U43)	951	948	112,150	589	29,369	215	52,538	140	29,851	—	—	7	392
MERIT awards (R37)	1,326	1,273	363,078	3	1,010	296	85,005	961	274,383	3	201	63	2,479
Outstanding investigator (R35)	93	91	71,074	3	1,748	14	12,159	71	56,624	1	77	4	465
FIRST awards (R29)	2,651	2,613	257,658	503	49,919	1	42	2,075	206,602	—	—	72	1,095
Other (R55, U01, U19, P42)	877	801	405,007	215	73,045	47	29,198	484	287,950	23	3,985	108	10,829
Research centers	1,032	925	910,562	82	39,487	120	158,677	643	685,962	54	10,362	133	16,075
Specialized (P50, U54)	335	307	343,307	26	16,941	36	47,689	226	272,776	6	1,894	41	4,007
Core grants (P30)	255	241	233,491	5	4,341	27	33,929	193	189,368	5	891	25	4,963
General clinical (M01)	105	75	125,300	—	—	16	26,491	57	95,419	31	2,960	1	430
Comprehensive (P60)	60	44	57,089	4	4,175	18	28,227	20	23,976	—	—	18	710

^a Represents awards, not obligations.^b Each supplemental grant is counted separately.^c Supplements are only counted when the parent award is from a prior year's funds, and such supplements if multiple are counted as one.^d R03, R13, R15, R18, R21, R24, R25, S15, U13, U18, and U45 for all ICDs. Also, for NLM only, includes P41, P50, R01, R29, and R43; for NCRR only, includes U24; for FIC only, includes U01.

Source: Information Systems Branch, DRG
(Continued)

Table 30 (Cont.)

**NIH Research Grants^a by Kind and Type,
Fiscal Year 1993**

(Dollars in Thousands)

Kind of grant and code	Total num- ber ^b	Total		New		Continuation				Supplemental			
						Competing		Noncompeting		Competing		Noncompeting	
		Number ^c	Amount	Number	Amount	Number	Amount	Number	Amount	Number ^b	Amount	Number ^b	Amount
Research centers (cont.)	1,032	925	\$910,562	82	\$39,487	120	\$158,677	643	\$685,962	54	\$10,362	133	\$16,075
Biotechnology resource (P41, U41)	96	91	41,859	3	1,802	11	8,355	45	30,330	—	—	37	1,373
Primate research center (P51)	15	9	41,280	—	—	2	8,875	5	26,829	6	2,914	2	2,662
Animal resource (P40, U42)	36	36	14,477	1	568	7	3,091	26	10,459	—	—	2	359
RCMIs (G12)	26	19	26,633	1	889	1	1,520	16	22,467	6	1,703	2	54
Other (P20)	104	103	27,127	42	10,771	2	500	55	14,339	—	—	5	1,516
Other research	4,488	4,440	615,047	1,452	105,787	140	42,913	2,759	435,077	19	6,892	118	24,378
Biomedical research support and development (S03, S10)	432	431	18,214	46	8,757	—	—	384	9,456	—	—	2	1
RCPAs (K)	1,817	1,819	161,307	363	29,687	34	3,820	1,411	126,848	—	—	9	952
Cooperative clinical (R10, U10)	518	491	180,687	45	10,111	60	25,072	352	124,339	2	4,171	59	16,994
Minority biomedical support (S06, S14)	108	98	45,067	5	1,319	21	8,158	72	34,414	9	1,002	1	175
Other ^d	1,613	1,603	209,772	993	55,913	25	5,863	540	140,020	8	1,720	47	6,256

See footnotes on first page of table.

Table 31

**NIH Research Grants^a by Type,
Fiscal Years 1984–1993**

(Dollars in Thousands)

Type of grant	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
AMOUNT										
Total	\$3,279,479	\$3,815,105	\$3,985,211	\$4,735,196	\$5,133,374	\$5,619,018	\$5,961,116	\$6,541,532	\$7,079,264	\$7,257,005
New	469,130	624,240	577,565	779,491	757,720	771,016	782,563	886,624	954,773	808,619
Competing continuation	529,798	599,904	622,354	766,567	763,529	677,765	685,704	820,906	966,209	873,987
Noncompeting continuation	2,227,386	2,532,873	2,729,422	3,111,482	3,526,177	4,096,664	4,388,486	4,710,667	5,031,406	5,442,034
Supplemental	53,165	58,087	55,871	77,656	85,948	73,574	104,364	123,336	126,876	132,364
NUMBER										
Total^b	23,371	24,938	25,444	27,530	28,332	29,185	29,357	30,914	31,295	30,975
Total^c	23,147	24,727	25,263	27,197	28,050	28,874	28,908	30,372	30,448	30,041
New	4,509	5,186	4,842	5,800	5,540	5,490	5,238	5,927	5,999	5,145
Competing continuation	2,735	2,962	3,094	3,456	3,230	2,743	2,459	2,992	3,100	2,798
Noncompeting continuation	15,194	15,843	16,692	17,231	18,596	20,110	20,606	20,886	20,759	21,433
Supplemental	933	947	816	1,043	966	842	1,054	1,109	1,437	1,599

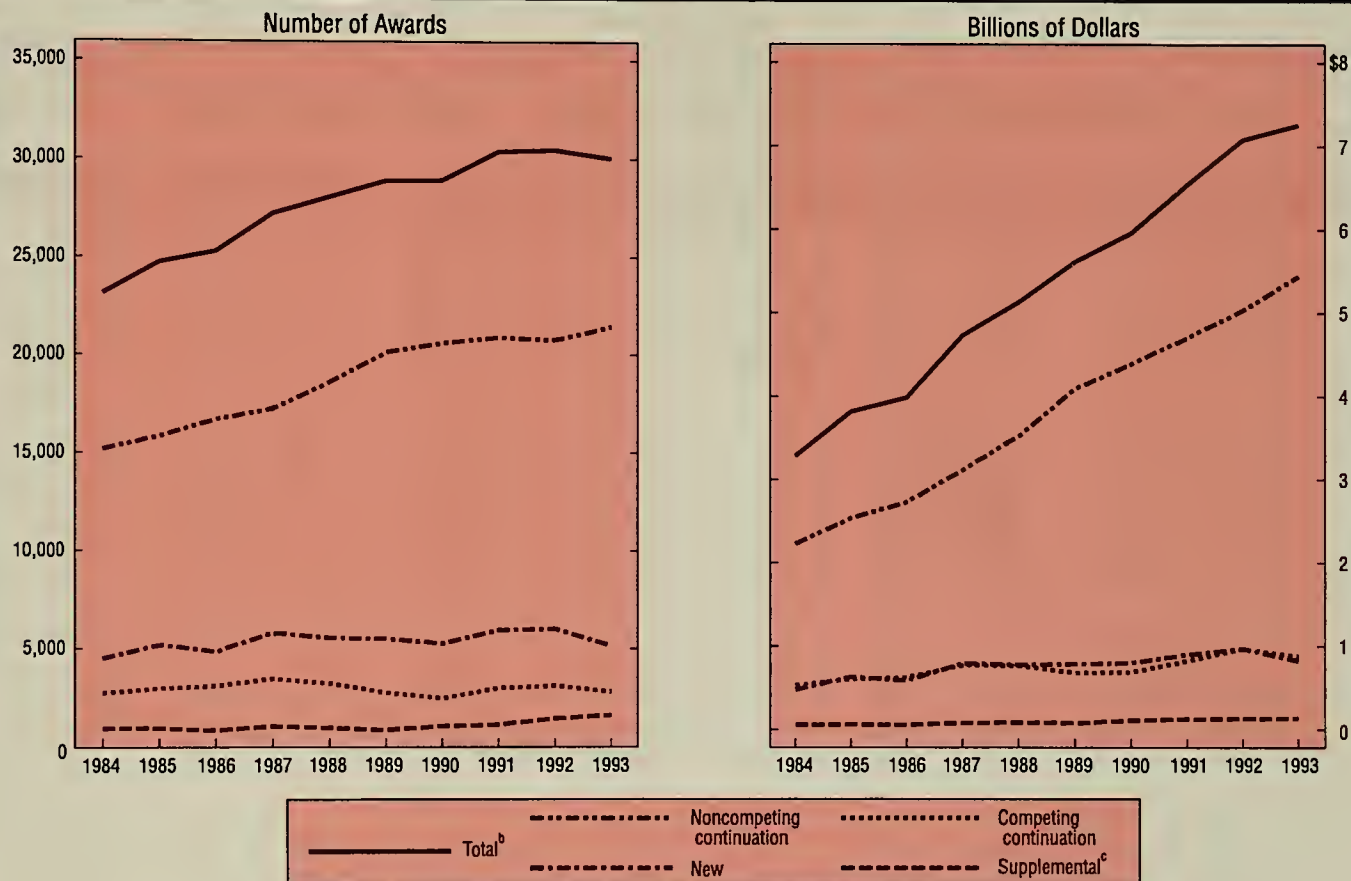
^a Represents awards, not obligations.

^b Each supplemental grant is counted separately.

^c Supplemental grants are counted only when the parent award is from prior years' funds; such supplements, if multiple, are counted as one.

Source: Information Systems Branch, DRG

Figure 31.1

NIH Research Grants^a by Type, Fiscal Years 1984–1993

^a Represents awards, not obligations.

^b Supplemental grants are counted only when the parent award is from prior years' funds; such supplements, if multiple, are counted as one.

^c Each supplemental grant is counted separately.

Source: Information Systems Branch, DRG

Table 32

**NIH Research Grants^a by NIH Component
and Race of Principal Investigator or Program Director,^b Fiscal Year 1993**

(Dollars in Thousands)

NIH component	Total			Research projects			Research centers			Other research		
	White	Minority	Unknown	White	Minority	Unknown	White	Minority	Unknown	White	Minority	Unknown
	<i>AMOUNT</i>											
Total	\$6,133,297	\$651,649	\$359,805	\$4,873,191	\$510,033	\$236,022	\$790,407	\$69,776	\$50,375	\$469,698	\$71,840	\$73,407
NIA	261,347	21,515	16,153	207,544	17,984	11,104	45,278	2,165	4,098	8,525	1,366	951
NIAAA	116,683	10,301	3,505	86,922	8,142	1,922	14,420	1,525	1,396	15,341	634	187
NIAD	560,655	57,487	34,968	544,931	54,022	31,981	4,997	1,645	1,080	10,727	1,821	1,906
NIAMS	147,408	19,019	6,008	120,729	16,343	4,945	21,262	2,372	-	5,417	304	1,063
NCI	1,009,523	111,319	57,679	760,096	97,686	42,230	131,100	7,932	5,937	118,327	5,701	9,511
NICHD	316,452	29,350	21,923	247,258	23,071	12,305	43,470	3,263	2,223	25,724	3,015	7,396
NIDCD	114,574	7,824	5,783	95,576	6,015	3,325	14,131	1,071	1,862	4,867	738	595
NIDR	93,257	8,724	3,030	66,441	6,915	1,883	16,707	751	680	10,109	1,058	468
NIDDK	454,697	49,834	21,703	398,491	45,456	17,958	43,651	2,011	1,000	12,555	2,367	2,745
NIDA	250,355	23,737	16,249	164,343	15,808	9,220	25,424	1,188	-	60,588	6,741	7,030
NIEHS	135,322	13,456	18,208	99,333	11,159	3,930	15,859	2,228	-	20,129	69	14,278
NEI	186,963	25,438	10,451	154,366	23,262	6,782	5,951	472	1,216	26,646	1,704	2,453
NIGMS	615,726	87,889	21,329	583,610	58,170	15,114	7,784	-	-	24,333	29,720	6,215
NHLBI	742,836	81,724	51,207	636,487	61,608	41,480	77,701	14,581	4,487	28,648	5,535	5,240
NIMH	357,225	26,346	19,812	250,594	18,495	15,262	61,512	3,169	637	45,118	4,682	3,913
NINDS	398,929	42,297	17,502	357,895	38,904	13,585	28,705	1,766	731	12,328	1,627	3,186
NINR	37,757	2,718	1,794	33,092	1,879	1,483	1,762	-	-	2,903	839	312
FIC	3,331	252	72	-	-	-	-	-	-	3,331	252	72
NCHGR	84,218	4,243	5,258	53,732	3,885	1,041	27,691	-	3,736	2,794	357	481
NCRR	234,738	28,088	26,630	11,751	1,229	472	203,002	23,637	21,292	19,985	3,222	4,866
NLM	11,303	88	539	-	-	-	-	-	-	11,303	88	539

^a Excludes SBIR grants (R43 and R44).

^b For additional information, see DRG's publication: Minorities in NIH Extramural Grant Programs.

Source: Information Systems Branch, DRG
(Continued)

Table 32 (Cont.)

**NIH Research Grants^a by NIH Component
and Race of Principal Investigator or Program Director,^b Fiscal Year 1993**

NIH component	Total			Research projects			Research centers			Other research		
	White	Minority	Unknown	White	Minority	Unknown	White	Minority	Unknown	White	Minority	Unknown
	NUMBER											
Total	25,182	3,075	1,764	20,951	2,479	1,074	896	80	56	3,335	516	634
NIA	975	106	70	819	86	53	55	3	4	101	17	13
NIAAA	479	43	15	379	36	11	14	2	1	86	5	3
NIAID	2,266	284	147	2,095	255	124	12	2	2	159	27	21
NIAMS	706	84	45	604	77	29	29	3	—	73	4	16
NCI	3,393	512	253	2,781	451	159	97	7	8	515	54	86
NICHD	1,499	146	103	1,264	123	66	74	6	4	161	17	33
NIDCD	544	44	33	460	26	20	15	2	2	69	16	11
NIDR	503	75	22	362	53	11	32	2	1	109	20	10
NIDDK	2,143	280	135	1,908	242	96	69	4	1	166	34	38
NIDA	813	75	55	628	56	32	25	1	—	160	18	23
NIEHS	436	41	30	369	38	16	16	2	—	49	1	14
NEI	1,019	133	76	833	119	41	23	2	4	163	12	31
NIGMS	3,186	426	124	3,026	331	92	11	—	—	149	95	32
NHLBI	2,790	345	218	2,398	284	152	63	12	3	329	49	63
NIMH	1,512	109	112	1,101	70	84	57	3	1	354	36	27
NINDS	1,760	231	105	1,546	207	71	43	3	2	171	21	32
NINR	221	11	12	176	9	7	10	—	—	35	2	5
FIC	85	11	3	—	—	—	—	—	—	85	11	3
NCHGR	196	11	13	142	7	7	14	—	2	40	4	4
NCRR	605	107	187	60	9	3	235	26	21	310	72	163
NLM	51	1	6	—	—	—	—	—	—	51	1	6

See footnotes on first page of table.

Table 33

**NIH Research Grants^a by NIH Component
and Gender of Principal Investigator or Program Director,^b Fiscal Year 1993**

(Dollars in Thousands)

NIH component	Total			Research projects			Research centers			Other research		
	Male	Female	Unknown	Male	Female	Unknown	Male	Female	Unknown	Male	Female	Unknown
	AMOUNT											
Total	\$5,846,965	\$1,144,905	\$152,881	\$4,570,391	\$955,995	\$92,863	\$814,846	\$65,476	\$30,241	\$461,728	\$123,436	\$29,780
NIA	232,046	57,986	8,983	183,209	48,029	5,394	42,141	6,273	3,127	6,696	3,684	462
NIAAA	103,483	25,991	1,016	73,706	22,352	928	16,092	1,250	—	13,685	2,389	88
NIAID	531,340	108,447	13,323	516,357	102,952	11,625	6,248	394	1,080	8,735	5,101	618
NIAMS	140,745	29,923	1,767	114,119	26,333	1,566	21,910	1,724	—	4,716	1,866	201
NCI	1,000,005	154,131	24,386	745,452	140,701	13,859	138,575	1,210	5,184	115,978	12,220	5,343
NICHD	262,008	95,382	10,335	200,462	77,478	4,694	40,340	7,638	978	21,206	10,266	4,663
NIDCD	100,271	26,666	1,243	83,073	20,711	1,132	14,246	2,819	—	2,952	3,136	111
NIDR	87,031	16,804	1,177	61,703	12,531	1,005	16,081	2,057	—	9,247	2,216	172
NIDDK	457,222	63,141	5,872	400,042	56,901	4,962	44,768	1,895	—	12,412	4,345	910
NIDA	218,281	62,908	9,152	135,940	48,916	4,515	24,917	1,695	—	57,424	12,297	4,637
NIEHS	141,117	22,546	3,323	98,826	15,236	360	17,293	795	—	24,998	6,515	2,963
NEI	174,985	41,945	5,922	149,553	31,449	3,408	5,445	978	1,216	19,987	9,518	1,298
NIGMS	611,625	104,092	9,227	558,356	92,104	6,433	7,784	—	—	45,485	11,988	2,794
NHLBI	748,738	103,664	23,365	630,408	90,374	18,794	86,651	7,508	2,609	31,679	5,782	1,962
NIMH	298,562	95,610	9,211	208,743	67,168	8,440	52,200	13,118	—	37,619	15,324	771
NINDS	387,803	64,857	6,068	347,213	57,995	5,176	28,817	1,993	393	11,773	4,869	499
NINR	3,948	38,122	200	3,715	32,540	200	—	1,762	—	233	3,820	—
FIC	2,862	793	—	—	—	—	—	—	—	2,862	793	—
NCHGR	78,988	12,232	2,500	48,761	9,527	372	27,691	1,873	1,863	2,536	832	265
NCRR	255,867	18,080	15,509	10,753	2,698	—	223,647	10,494	13,791	21,467	4,888	1,718
NLM	10,038	1,587	305	—	—	—	—	—	—	10,038	1,587	305

^a Excludes SBIR grants (R43 and R44).

^b For additional information, see DRG's publication: Women in NIH Extramural Grant Programs.

Source: Information Systems Branch, DRG
(Continued)

Table 33 (Cont.)

**NIH Research Grants^a by NIH Component
and Gender of Principal Investigator or Program Director,^b Fiscal Year 1993**

NIH component	Total			Research projects			Research centers			Other research		
	Male	Female	Unknown	Male	Female	Unknown	Male	Female	Unknown	Male	Female	Unknown
	NUMBER											
Total	23,410	5,923	688	19,328	4,766	410	910	91	31	3,172	1,066	247
NIA	815	304	32	688	247	23	49	10	3	78	47	6
NIAAA	396	135	6	314	108	4	16	1	—	66	26	2
NIAID	2,130	516	51	1,973	456	45	13	1	2	144	59	4
NIAMS	645	177	13	553	147	10	30	2	—	62	28	3
NCI	3,296	755	107	2,710	621	60	105	4	3	481	130	44
NICHD	1,215	484	49	1,014	412	27	70	12	2	131	60	20
NIDCD	434	176	11	364	133	9	14	5	—	56	38	2
NIDR	478	113	9	345	76	5	32	3	—	101	34	4
NIDDK	2,122	402	34	1,883	340	23	71	3	—	168	59	11
NIDA	679	236	28	516	184	16	25	1	—	138	51	12
NIEHS	420	81	6	360	61	2	19	1	—	41	19	4
NEI	974	214	40	801	175	17	21	4	4	152	35	19
NIGMS	3,089	597	50	2,872	542	35	11	—	—	206	55	15
NHLBI	2,762	497	94	2,353	413	68	70	6	2	339	78	24
NIMH	1,244	446	43	902	318	35	51	10	—	291	118	8
NINDS	1,690	371	35	1,483	314	27	43	4	1	164	53	7
NINR	22	221	1	20	171	1	—	10	—	2	40	—
FIC	84	15	—	—	—	—	—	—	—	84	15	—
NCHGR	164	50	6	120	33	3	14	1	1	30	16	2
NCRR	709	121	69	57	15	—	256	13	13	396	93	56
NLM	42	12	4	—	—	—	—	—	—	42	12	4

See footnotes on first page of table.

Table 34

NIH Research Grants with Dollars Budgeted for Equipment^a by Kind of Grant, Fiscal Years 1984–1993

(Dollars in Thousands)

Kind of grant and activity code	1984		1985		1986		1987		1988	
	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount
Total	10,126	\$113,193	11,110	\$150,570	10,904	\$143,087	12,376	\$185,658	12,215	\$191,418
Research projects	9,274	72,989	10,106	90,144	9,836	87,605	10,708	108,264	10,474	109,715
Traditional (R01)	8,344	59,830	9,057	75,176	8,661	69,237	8,999	78,385	8,370	74,950
Research program projects (P01)	367	9,416	395	10,877	399	10,926	444	13,309	468	14,516
New investigator research (R23)	313	1,234	333	1,381	264	1,032	119	456	36	120
SBIR (R43, R44, U43)	139	1,640	173	1,622	224	2,895	238	3,234	227	2,879
MERIT awards (R37)	–	–	–	–	134	1,858	254	3,098	396	4,654
Outstanding investigator (R35)	–	–	16	289	33	564	41	612	45	690
FIRST awards (R29)	–	–	–	–	14	66	440	6,079	717	8,345
Other (P41, ^b P42, R22, R55, U01, U19)	111	868	132	800	107	1,027	173	3,090	215	3,561
Research centers	373	15,980	390	20,858	368	17,750	358	18,031	379	19,617
Specialized (P50, U54)	133	2,801	133	3,513	129	3,322	153	4,172	152	3,600
Core grants (P30)	88	2,757	94	4,562	79	2,669	82	3,771	87	4,004
General clinical (M01)	58	3,827	52	2,234	53	1,519	23	620	26	1,068
Comprehensive (P60)	27	427	23	287	20	198	23	414	26	756
Biotechnology resource (P41, U41)	43	4,916	56	6,670	47	4,792	44	2,665	46	4,393
Primate research center (P51)	6	1,005	7	2,003	7	1,631	7	3,617	7	3,170
Animal resource (P40, U40, U42)	18	247	18	74	19	1,707	14	1,266	21	1,096
RCMIs (G12)	–	–	7	1,516	13	1,886	11	1,505	14	1,531
Other (P20)	–	–	–	–	1	26	1	1	–	–
Other research	479	24,224	614	39,568	700	37,732	1,310	59,363	1,362	62,086
Biomedical research support and development (S03, S10)	115	19,606	171	31,816	151	30,459	159	31,643	169	32,436
RCPAs (K)	92	257	141	450	150	559	190	816	222	959
Cooperative clinical (R10, U10)	41	415	37	291	27	154	51	814	43	426
Minority biomedical support (S06, S11, S14)	61	2,908	67	2,521	53	1,958	61	3,025	56	2,093
Other ^c	170	1,038	198	4,490	319	4,602	849	23,066	872	26,173

^a Numbers of grants with equipment budgeted and total dollars budgeted for equipment.^b P41 for NIGMS only.^c D42, R03, R13, R15, R18, R19, R21, R24, R25, R26, R55 (prior to FY 1993), S15, U18, U26, and U45 for all ICDs. Also, for DRR (prior to 1990) and NLM only, includes P41, P50, R01, R23, R29, R43, R44, U24, and U50. For NCRH only, includes U24. For NCNR in FY 1986 only, includes P01, R01, and R23. For FIC only, includes U01 in FY 1993.Source: Information Systems Branch, DRG
(Continued)

Table 34 (Cont.)

**NIH Research Grants with Dollars Budgeted for Equipment^a
by Kind of Grant, Fiscal Years 1984-1993**

(Dollars in Thousands)

Kind of grant and activity code	1989		1990		1991		1992		1993	
	Number	Amount	Number	Amount	Number	Amount	Number	Amount	Number	Amount
Total	11,758	\$181,577	10,889	\$169,557	11,108	\$171,525	10,296	\$143,017	9,429	\$125,527
Research projects	9,907	98,163	9,051	90,017	9,190	91,847	8,719	95,546	7,957	81,739
Traditional (R01)	7,790	70,176	7,009	62,474	7,046	63,463	6,595	62,729	5,896	52,825
Research program projects (P01)	446	10,582	414	10,374	404	10,048	388	10,583	353	10,796
New investigator research (R23)	9	38	-	-	-	-	-	-	-	-
SBIR (R43, R44, U43)	266	3,105	293	4,032	338	4,892	340	4,552	408	5,777
MERIT awards (R37)	421	4,178	439	3,518	495	4,105	473	4,518	449	3,749
Outstanding investigator (R35)	48	818	46	653	49	870	49	856	51	794
FIRST awards (R29)	716	6,604	651	6,055	648	5,400	662	5,760	579	5,097
Other (P41, ^b P42, R22, R55, U01, U19)	211	2,663	199	2,912	210	3,068	212	6,547	221	2,702
Research centers	370	20,427	379	21,891	401	20,662	415	23,392	416	20,088
Specialized (P50, U54)	142	2,916	142	5,053	147	3,737	157	4,857	141	4,259
Core grants (P30)	94	4,617	106	4,513	109	4,088	104	3,260	111	4,716
General clinical (M01)	26	868	28	2,061	35	2,209	33	2,228	24	888
Comprehensive (P60)	18	117	16	357	17	423	22	441	27	493
Biotechnology resource (P41, U41)	48	4,419	48	4,575	44	3,189	45	4,596	48	3,922
Primate research center (P51)	10	3,861	7	3,121	7	2,911	7	4,929	7	2,927
Animal resource (P40, U40, U42)	18	590	18	526	15	735	14	595	11	354
RCMIs (G12)	14	3,040	13	1,592	14	3,232	13	2,234	16	2,038
Other (P20)	-	-	1	94	13	138	20	253	31	491
Other research	1,481	62,988	1,459	57,648	1,517	59,016	1,162	24,079	1,056	23,700
Biomedical research support and development (S03, S10)	151	31,915	144	32,489	139	32,658	39	8,758	46	8,757
RCPCAs (K)	224	1,033	209	1,012	204	922	237	1,095	220	1,080
Cooperative clinical (R10, U10)	50	671	56	215	61	903	82	2,684	95	2,876
Minority biomedical support (S06, S11, S14)	43	1,267	48	962	51	2,108	42	1,204	41	1,448
Other ^c	1,013	28,102	1,002	22,970	1,062	22,426	762	10,338	654	9,540

See footnotes on first page of table.

Table 35

Indirect Costs of NIH Research Grants^a by Type of Performer, Fiscal Years 1984-1993

(Dollars in Thousands)

Type of performer	1984			1985			1986			1987			1988		
	Total costs	Indirect costs		Total costs	Indirect costs		Total costs	Indirect costs		Total costs	Indirect costs		Total costs	Indirect costs	
		Amount	Percent		Amount	Percent		Amount	Percent		Amount	Percent		Amount	Percent
Total	\$3,123,973	\$977,066	31.3%	\$3,603,508	\$1,135,416	31.5%	\$3,768,869	\$1,190,915	31.6%	\$4,473,438	\$1,405,646	31.4%	\$4,863,428	\$1,521,514	31.3%
Public	1,327,933	370,192	27.9	1,545,702	432,134	28.0	1,611,897	456,047	28.3	1,931,354	545,902	28.3	2,098,524	594,545	28.3
Private	1,796,040	606,874	33.8	2,057,806	703,282	34.2	2,156,972	734,869	34.1	2,542,084	859,744	33.8	2,764,904	926,969	33.5
Higher education	2,510,397	788,064	31.4	2,887,376	909,590	31.5	3,009,074	952,706	31.7	3,550,596	1,118,196	31.5	3,843,630	1,203,727	31.3
Public	1,281,378	356,796	27.8	1,494,793	417,286	27.9	1,559,321	441,397	28.3	1,859,791	527,636	28.4	2,017,808	576,494	28.6
Private	1,229,019	431,268	35.1	1,392,582	492,303	35.4	1,449,753	511,309	35.3	1,690,804	590,561	34.9	1,825,821	627,233	34.4
Research institutes	287,888	99,411	34.5	328,809	115,692	35.2	344,659	122,012	35.4	408,140	145,909	35.7	450,024	163,741	36.4
Public	2,218	685	30.9	2,670	862	32.3	3,250	897	27.6	5,415	1,806	33.4	7,241	2,512	34.7
Private	285,670	98,727	34.6	326,139	114,830	35.2	341,409	121,115	35.5	402,725	144,103	35.8	442,783	161,229	36.4
Independent hospitals^b	248,897	69,933	28.1	295,841	86,396	29.2	307,879	90,163	29.3	384,605	109,919	28.6	403,546	114,818	28.5
Public	36,203	10,490	29.0	39,354	11,449	29.1	39,044	11,320	29.0	51,088	13,956	27.3	49,656	12,360	24.9
Private	212,695	59,443	27.9	256,487	74,947	29.2	268,835	78,844	29.3	333,516	95,962	28.8	353,889	102,457	29.0
Other	76,791	19,658	25.6	91,481	23,738	25.9	107,256	26,034	24.3	130,098	31,622	24.3	166,229	39,228	23.6
Public	8,134	2,222	27.3	8,885	2,536	28.5	10,281	2,432	23.7	15,060	2,503	16.6	23,818	3,178	13.3
Private	68,657	17,436	25.4	82,597	21,202	25.7	96,975	23,601	24.3	115,038	29,119	25.3	142,410	36,049	25.3

^a Represents awards, not obligations. Unobligated balances from prior years' awards are carried forward as direct costs and therefore excluded. Also excludes RCPAs, BRS and BRD grants, conference grants, awards to minority student apprentice programs, research centers in minority institutions, education projects, and foreign grants.

^b Includes government hospitals and those not owned by institutions shown above.

Source: Information Systems Branch, DRG
(Continued)

Table 35 (Cont.)

Indirect Costs of NIH Research Grants^a by Type of Performer, Fiscal Years 1984–1993

(Dollars in Thousands)

Type of performer	1989			1990			1991			1992			1993		
	Total costs	Indirect costs		Total costs	Indirect costs		Total costs	Indirect costs		Total costs	Indirect costs		Total costs	Indirect costs	
		Amount	Percent		Amount	Percent		Amount	Percent		Amount	Percent		Amount	Percent
Total	\$5,336,303	\$1,677,628	31.4%	\$5,666,609	\$1,785,148	31.5%	\$6,228,995	\$1,959,129	31.5%	\$6,815,228	\$2,122,970	31.2%	\$6,982,604	\$2,177,140	31.2%
Public	2,314,488	661,991	28.6	2,474,641	711,045	28.7	2,732,237	788,042	28.8	2,949,938	842,809	28.6	2,989,316	859,927	28.8
Private	3,021,815	1,015,637	33.6	3,191,968	1,074,103	33.7	3,496,758	1,171,087	33.5	3,865,290	1,280,161	33.1	3,993,288	1,317,213	33.0
Higher education	4,185,132	1,317,389	31.5	4,431,002	1,394,799	31.5	4,870,602	1,522,127	31.3	5,326,905	1,644,484	30.9	5,433,881	1,678,814	30.9
Public	2,215,568	641,995	29.0	2,358,412	688,808	29.2	2,615,741	764,624	29.2	2,845,416	819,779	28.8	2,896,832	837,425	28.9
Private	1,969,564	675,394	34.3	2,072,590	705,991	34.1	2,254,861	757,504	33.6	2,481,489	824,704	33.2	2,537,049	841,389	33.2
Research institutes	494,029	181,013	36.6	526,181	191,860	36.5	577,075	211,695	36.7	647,239	233,118	36.0	670,479	241,587	36.0
Public	8,731	2,701	30.9	8,757	2,880	32.9	9,921	3,127	31.5	12,139	3,766	31.0	13,178	3,912	29.7
Private	485,299	178,312	36.7	517,425	188,980	36.5	567,154	208,569	36.8	635,100	229,352	36.1	657,301	237,675	36.2
Independent hospitals^b	459,008	134,620	29.3	477,041	147,647	31.0	529,392	168,316	31.8	569,485	184,712	32.4	589,312	192,255	32.6
Public	52,864	13,523	25.6	58,494	14,812	25.3	59,587	15,805	26.5	63,296	16,381	25.9	59,416	15,941	26.8
Private	406,143	121,097	29.8	418,547	132,835	31.7	469,805	152,511	32.5	506,189	168,331	33.3	529,896	176,314	33.3
Other	198,134	44,605	22.5	232,385	50,843	21.9	251,926	56,990	22.6	271,599	60,656	22.3	288,933	64,485	22.3
Public	37,325	3,772	10.1	48,979	4,545	9.3	46,988	4,486	9.5	29,088	2,882	9.9	19,891	2,649	13.3
Private	160,809	40,834	25.4	183,406	46,297	25.2	204,938	52,504	25.6	242,511	57,773	23.8	269,041	61,835	23.0

See footnotes on first page of table.

Table 36

**Number of Awards and Success Rates for NIH Competing
Research Projects by NIH Component,^a
Fiscal Years 1984–1993**

NIH component	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
NUMBER AWARDED										
Total	6,005	6,837	6,669	7,124	6,865	6,174	5,626	6,465	6,768	6,148
NIA	129	209	205	201	214	194	192	329	294	206
NIAAA	98	107	103	124	110	156	160	100	142	101
NIAID	507	549	540	641	636	652	627	641	619	678
NIAMS	171	194	199	179	188	185	149	228	153	165
NCI	969	1,017	950	1,061	979	728	728	840	1,079	991
NICHD	415	469	490	545	450	433	311	370	395	377
NIDCD	–	–	–	–	–	98	130	135	124	130
NIDR	123	131	149	130	114	109	105	132	107	94
NIDDK	614	592	637	686	594	504	425	518	628	466
NIDA	120	138	127	184	180	219	251	229	212	222
NIEHS	138	108	107	128	114	100	104	103	129	112
NEI	309	367	362	313	277	310	254	247	247	229
NIGMS	702	987	981	851	1,044	829	623	874	925	780
NHLBI	852	901	886	966	851	698	675	717	759	673
NIMH	294	346	290	370	363	416	370	365	375	316
NINDS	564	722	643	697	700	493	409	474	443	449
NCNR/NINR	–	–	–	48	51	50	48	50	44	51
NCHGR	–	–	–	–	–	–	38	75	40	50
NCRR	–	–	–	–	–	–	27	38	53	58

^a Excludes NLM, DRR, and cancer control research projects. Includes NCRR (starting in FY 1990).

^b Number awarded as a percentage of the sum of the number of applications reviewed and the number of funded carryovers.

Source: Information Systems Branch, DRG
(Continued)

Table 36 (Cont.)

**Number of Awards and Success Rates for NIH Competing
Research Projects by NIH Component,^a
Fiscal Years 1984–1993**

NIH component	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
<i>SUCCESS RATES^b</i>										
All NIH	32.1%	33.2%	31.7%	34.8%	31.4%	28.0%	24.6%	29.1%	29.6%	24.5%
NIA	20.1	27.0	24.9	27.3	25.3	22.7	21.4	30.4	28.9	23.1
NIAAA	20.2	31.0	29.6	35.5	24.9	37.4	34.6	22.7	31.8	19.2
NIAID	33.6	33.6	31.5	34.0	30.6	29.9	27.2	31.0	29.6	29.3
NIAMS	33.0	30.4	30.6	28.5	26.0	26.4	20.0	31.3	17.5	20.9
NCI	32.9	31.9	30.1	34.1	32.7	25.0	23.5	27.5	32.2	24.6
NICHD	24.7	24.7	23.9	32.8	24.6	24.2	19.3	25.1	26.3	21.3
NIDCD	–	–	–	–	–	38.6	36.9	30.9	30.2	29.2
NIDR	33.0	34.3	33.0	28.2	25.3	23.2	20.9	30.0	27.1	24.3
NIDDK	35.4	32.4	33.1	37.8	31.8	26.3	23.0	26.8	32.7	22.0
NIDA	36.9	42.7	35.5	41.3	18.6	36.1	37.4	31.8	30.9	31.8
NIEHS	42.6	27.8	25.7	28.5	28.5	26.4	28.3	27.5	28.0	21.1
NEI	46.3	46.0	46.1	49.5	42.8	42.8	37.5	32.8	31.0	32.0
NIGMS	33.2	42.3	40.0	37.6	38.5	28.4	22.0	34.4	35.7	29.8
NHLBI	34.8	32.4	31.2	32.5	31.3	25.6	24.9	27.5	29.2	21.9
NIMH	27.8	30.4	25.0	32.2	29.1	30.9	24.3	26.7	26.9	19.5
NINDS	29.5	33.9	33.9	39.4	39.6	31.6	24.2	29.9	26.6	25.1
NCNR/NINR	–	–	–	30.0	26.4	18.7	16.4	19.2	15.4	11.3
NCHGR	–	–	–	–	–	–	23.3	37.9	21.6	27.9
NCRR	–	–	–	–	–	–	21.6	28.8	32.7	28.4

See footnotes on first page of table.

Table 37

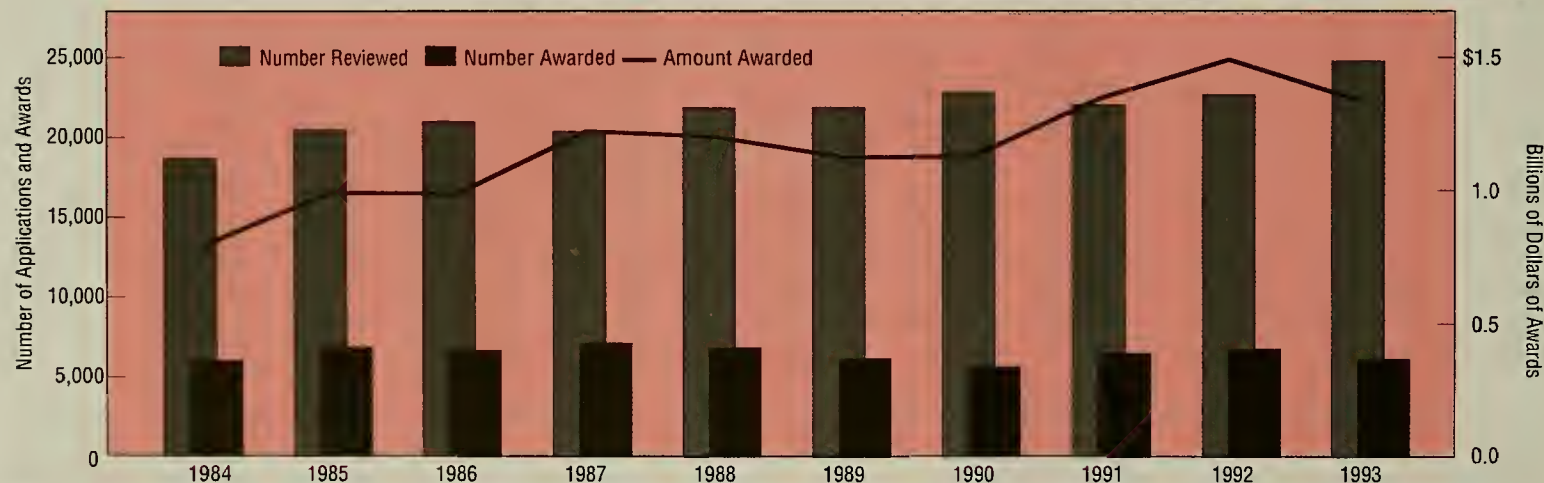
Applications for NIH Competing Research Projects Reviewed and Awarded,^a Fiscal Years 1984–1993

(Dollars in Thousands)

Applications	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
AMOUNT										
Reviewed	\$2,640,936	\$3,203,924	\$3,393,177	\$3,624,040	\$4,224,076	\$4,404,996	\$5,033,890	\$5,169,606	\$5,552,324	\$5,878,495
Awarded	789,106	990,937	989,261	1,223,208	1,202,193	1,127,341	1,124,447	1,347,770	1,493,030	1,342,083
NUMBER										
Reviewed	18,638	20,440	20,958	20,368	21,846	21,877	22,792	22,004	22,659	24,774
Awarded	6,005	6,837	6,669	7,124	6,865	6,174	5,626	6,465	6,768	6,148

Figure 37.1

Number of Applications for NIH Competing Research Projects and Number and Dollars of Awards,^a Fiscal Years 1984–1993



^a Excludes NLM, DRR, and cancer control research projects. Includes NCRR (starting in FY 1990). Represents grants coded R01, R22, R23, R29, R35, R37, R43, R44, P01, P42, and U01, and for NIGMS only, P41. Original applications and their amendments for the same fiscal year are counted as one. As in other award tables, dollar figures represent total costs (direct and indirect). Indirect costs included under "Reviewed" are based on indirect cost rates for each ICD's funded applications in year shown.

Source: Information Systems Branch, DRG

Table 38

**Average Length in Years of Competing Traditional
Research Project (R01) Awards^a by NIH Component,
Fiscal Years 1984–1993**

NIH component	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
All NIH	3.31	3.34	3.54	3.68	3.86	3.90	3.99	3.75	3.74	3.81
NIA	2.81	2.92	3.16	3.16	3.55	3.50	3.74	3.79	3.66	4.15
NIAAA	2.81	3.08	3.11	3.22	3.41	3.31	3.28	3.58	3.45	3.47
NIAID	3.55	3.39	3.51	3.73	4.02	4.03	4.18	4.06	3.97	4.01
NIAMS	3.39	3.43	3.71	3.83	3.97	3.95	4.23	3.73	3.70	3.82
NCI	3.24	3.20	3.44	3.52	3.83	3.84	3.93	3.72	3.64	3.66
NICHD	3.09	3.09	3.30	3.46	3.72	3.69	3.89	3.79	3.73	3.81
NIDCD	–	–	–	–	–	4.38	4.20	3.84	3.73	3.70
NIDR	2.97	3.28	3.19	3.50	3.44	3.88	3.77	3.81	3.72	3.65
NIDDK	–	–	3.62	3.89	3.89	4.11	4.21	3.89	3.91	3.91
NIDA	2.89	2.92	3.07	3.15	3.39	3.25	3.29	3.49	3.53	3.73
NIEHS	3.18	3.13	3.36	3.31	3.75	3.82	3.87	3.57	3.58	3.67
NEI	3.58	3.48	3.70	3.98	4.06	4.29	4.07	3.83	3.76	3.88
NIGMS	3.59	3.55	3.91	4.11	4.12	4.23	4.39	3.75	3.67	3.79
NHLBI	3.27	3.54	3.59	3.99	4.01	4.15	4.20	3.75	3.92	4.00
NIMH	2.60	2.85	2.87	2.83	3.11	3.22	3.51	3.44	3.60	3.51
NINDS	3.57	3.49	3.62	3.72	3.94	3.88	4.08	3.75	3.80	3.84
NCHGR	–	–	–	–	–	–	3.30	3.00	2.97	2.97
NCNR/NINR	–	–	–	2.76	3.00	3.24	3.70	3.43	3.87	3.45
NCRR	–	–	–	–	–	–	3.73	3.44	3.75	3.57

^a Excludes supplemental grants.

Source: Information Systems Branch, DRG

Table 39

**Average Size of Traditional Research Project (R01)
Awards^a by NIH Component, Fiscal Years 1984–1993
in Current and Constant Dollars**

(Thousands)

NIH component	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
<i>CURRENT DOLLARS</i>										
All NIH	\$123,500	\$134,400	\$137,100	\$152,200	\$155,700	\$165,500	\$176,800	\$189,100	\$199,800	\$208,700
NIA	112,197	120,696	124,483	133,032	138,219	149,887	163,099	174,610	188,331	205,454
NIAAA	117,909	122,812	129,688	143,810	154,903	169,683	195,525	204,682	228,244	243,343
NIAID	124,603	139,765	135,284	155,316	161,424	167,194	176,726	185,959	197,176	207,047
NIAMS	120,928	132,059	132,593	150,144	151,339	158,920	166,470	182,319	192,614	200,164
NCI	126,859	135,195	142,270	156,459	159,371	167,610	177,194	196,145	206,977	217,170
NICHD	118,655	126,759	124,647	133,951	140,277	148,134	162,946	165,397	175,668	182,264
NIDCD	—	—	—	—	—	151,578	169,551	175,544	187,545	190,424
NIDR	109,512	120,904	122,575	133,055	137,394	143,474	147,000	159,925	174,814	180,074
NIDDK	126,385	135,846	138,338	154,842	157,722	167,489	178,967	182,231	187,287	193,325
NIDA	138,890	143,608	141,659	166,722	170,809	190,254	213,570	234,951	244,806	268,161
NIEHS	115,146	126,335	126,518	143,514	147,201	155,734	167,693	173,016	180,984	191,492
NEI	118,756	130,819	128,878	145,044	143,454	151,836	158,169	168,908	179,318	189,691
NIGMS	122,764	133,573	134,282	148,875	156,160	163,695	169,063	178,050	186,334	192,495
NHLBI	136,262	153,446	159,867	172,507	172,595	184,677	189,656	202,970	216,174	228,522
NIMH	119,308	131,977	143,314	155,223	162,388	189,696	202,284	228,047	233,968	239,868
NINDS	110,995	119,165	123,679	143,868	142,806	149,403	164,332	182,370	198,260	209,916
NCHGR	—	—	—	—	—	—	305,442	311,258	310,166	273,527
NCNR/NINR	—	—	—	146,075	164,884	180,219	196,400	206,532	236,605	254,309
NCRR	—	—	—	—	—	—	160,067	165,620	188,048	190,123

^a Represents total costs, except that supplements to prior years' grants are excluded.

^b FY 1984=100. Constant dollars are based on the Biomedical R&D Price Index (see inside back cover).

Source: Information Systems Branch, DRG
(Continued)

Table 39 (Cont.)

**Average Size of Traditional Research Project (R01)
Awards^a by NIH Component, Fiscal Years 1984–1993
in Current and Constant Dollars**

(Thousands)

NIH component	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
<i>CONSTANT DOLLARS^b</i>										
All NIH	\$123,500	\$127,800	\$125,000	\$131,800	\$128,300	\$129,700	\$131,400	\$133,900	\$135,100	\$136,000
NIA	112,197	114,730	113,475	115,179	113,948	117,466	121,173	123,661	127,337	133,933
NIAAA	117,909	116,742	118,220	124,511	127,703	132,980	145,263	144,959	154,323	158,633
NIAID	124,603	132,857	123,322	134,473	133,078	131,030	131,297	131,699	133,317	134,972
NIAMS	120,928	125,531	120,869	129,995	124,764	124,545	123,677	129,121	130,233	130,485
NCI	126,859	128,512	129,690	135,462	131,386	131,356	131,645	138,913	139,944	141,571
NICHD	118,655	120,493	113,625	115,975	115,644	116,092	121,060	117,137	118,775	118,816
NIDCD	–	–	–	–	–	118,792	125,967	124,323	126,806	124,135
NIDR	109,512	114,928	111,737	115,199	113,268	112,441	109,212	113,262	118,197	117,388
NIDDK	126,385	129,132	126,106	134,063	130,026	131,261	132,962	129,059	126,631	126,027
NIDA	138,890	136,510	129,133	144,348	140,815	149,101	158,670	166,396	165,521	174,812
NIEHS	115,146	120,090	115,331	124,254	121,353	122,048	124,586	122,533	122,369	124,832
NEI	118,756	124,353	117,482	125,580	118,264	118,994	117,510	119,624	121,243	123,658
NIGMS	122,764	126,970	122,409	128,896	128,738	128,287	125,604	126,098	125,986	125,485
NHLBI	136,262	145,861	145,731	149,357	142,288	144,732	140,903	143,747	146,162	148,971
NIMH	119,308	125,453	130,641	134,392	133,873	148,665	150,285	161,507	158,194	156,368
NINDS	110,995	113,275	112,743	124,561	117,730	117,087	122,089	129,157	134,050	136,842
NCHGR	–	–	–	–	–	–	226,926	220,437	209,714	178,310
NCNR/NINR	–	–	–	126,472	135,931	141,237	145,914	146,269	159,977	165,781
NCRR	–	–	–	–	–	–	118,920	117,295	127,145	123,939

See footnotes on first page of table.

Table 40

**Major NIH Career Development Awards by Recipient's
Type of Doctorate,^a Fiscal Years 1984-1993**

(Dollars in Thousands)

Kind of award and code	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
AMOUNTS OF AWARDS TO INDIVIDUALS										
Total	\$51,068	\$71,944	\$74,195	\$81,625	\$85,381	\$84,460	\$88,009	\$102,558	\$104,473	\$107,742
Modified research career development (K04)										
M.D. or equivalent	5,290	6,651	6,060	5,520	5,583	5,065	4,634	4,343	3,407	2,672
Ph.D. or equivalent	18,834	22,024	20,499	18,473	17,815	15,364	16,183	16,044	14,392	12,758
Other	682	1,163	918	853	527	316	53	65	-	-
Academic/Teacher (K07)										
M.D. or equivalent	9,560	11,896	9,452	10,241	8,105	8,009	8,324	11,048	10,962	12,263
Ph.D. or equivalent	2,353	2,188	1,676	1,909	2,160	1,587	1,175	1,626	1,982	2,557
Other	256	489	552	438	279	236	78	88	162	150
Clinical investigator (K08)										
M.D. or equivalent	10,579	18,220	21,142	24,968	27,578	28,715	31,263	38,711	41,890	47,679
Ph.D. or equivalent	696	1,248	1,860	1,916	1,890	1,699	1,489	1,570	2,866	3,162
Other	727	1,305	1,602	1,222	1,135	775	614	433	381	166
Physician scientist (K11)										
M.D. or equivalent	2,038	6,308	9,422	14,359	17,787	19,600	21,119	25,519	25,966	24,388
Ph.D. or equivalent	53	177	110	217	493	817	955	1,090	797	474
Other	-	74	343	367	607	416	350	216	174	178
Dentist scientist (K15)										
M.D. or equivalent	-	136	505	1,083	1,305	1,676	1,628	1,730	1,335	1,294
Ph.D. or equivalent	-	-	-	-	50	53	71	76	63	-
Other	-	65	55	59	67	131	72	-	96	-
AMOUNTS OF PROGRAM AWARDS										
Total	\$372	\$2,430	\$3,865	\$6,032	\$7,775	\$8,649	\$8,634	\$11,769	\$15,323	\$16,243
Physician scientist (K12)	372	1,472	2,397	3,429	4,079	4,307	3,901	5,935	9,746	10,773
Dentist scientist (K16)	-	958	1,468	2,604	3,696	4,342	4,732	5,835	5,577	5,470

^a Awards to recipients holding both M.D. and Ph.D. or equivalent are under M.D.

Source: Information Systems Branch, DRG
(Continued)

Table 40 (Cont.)

**Major NIH Career Development Awards by Recipient's
Type of Doctorate,^a Fiscal Years 1984–1993**

Kind of award and code	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
NUMBERS OF AWARDS TO INDIVIDUALS										
Total	1,151	1,276	1,265	1,340	1,379	1,319	1,296	1,326	1,334	1,340
Modified research career development (K04)										
M.D. or equivalent	137	128	119	107	106	97	76	66	52	41
Ph.D. or equivalent	480	437	402	362	343	293	263	246	224	194
Other	17	22	18	17	10	6	1	1	–	–
Academic/Teacher (K07)										
M.D. or equivalent	187	191	143	140	103	95	90	107	104	111
Ph.D. or equivalent	47	38	28	31	35	23	16	20	25	32
Other	4	6	7	5	3	2	1	1	2	2
Clinical investigator (K08)										
M.D. or equivalent	212	296	333	388	428	434	471	499	526	591
Ph.D. or equivalent	14	20	29	29	30	27	23	22	38	39
Other	15	31	26	20	17	12	9	6	5	2
Physician scientist (K11)										
M.D. or equivalent	37	100	144	214	265	282	299	317	325	302
Ph.D. or equivalent	1	3	2	4	8	13	13	13	10	6
Other	–	1	5	5	9	6	6	3	3	3
Dentist scientist (K15)										
M.D. or equivalent	–	2	8	17	20	26	26	24	18	17
Ph.D. or equivalent	–	–	–	–	1	1	1	1	1	–
Other	–	1	1	1	1	2	1	–	1	–
NUMBERS OF PROGRAM AWARDS										
Total	3	17	18	21	21	21	27	33	48	53
Physician scientist (K12)	3	9	9	12	12	12	15	21	36	41
Dentist scientist (K16)	–	8	9	9	9	9	12	12	12	12

See footnote on first page of table.

Table 41

**Number of Appointments in NIH Research Training
Programs by Academic Level and Type,^a
Fiscal Years 1984–1993**

Academic level	1984	1985	1986	1987	1988	1989	1990	1991 (est.)	1992 (est.)	1993 (est.)
Total of A or B	13,201	13,215	12,818	13,423	13,282	13,288	14,005	14,822	14,542	14,146
A. ACADEMIC LEVEL										
Predoctoral	7,256	6,930	6,730	7,194	7,362	7,549	7,853	8,546	8,514	7,773
Individual	113	115	181	270	275	295	340	515	536	589
Predoctoral NRSA for M.D./Ph.D. fellowship (F30)	—	—	—	—	—	—	8	19	33	41
Predoctoral NRSA (F31)	108	112	174	261	265	288	326	493	498	546
MARC NRSA faculty fellowships (F34)	5	3	7	9	10	7	6	3	5	2
Institutional	7,143	6,815	6,549	6,924	7,087	7,254	7,513	8,031	7,978	7,184
NRSA (T32 excluding MSTP)	4,551	4,419	4,292	4,647	4,752	4,862	5,331	5,646	5,526	4,674
MSTP	692	713	701	768	770	767	810	820	834	850
MARC undergraduate NRSA (T34)	553	483	491	454	511	529	549	671	674	319
NRSA short-term research training (T35)	1,347	1,200	1,065	1,055	1,054	1,096	823	894	944	1,341
Postdoctoral	5,945	6,285	6,088	6,229	5,920	5,739	6,152	6,276	6,028	6,373
M.D.	2,343	2,505	2,545	2,641	2,635	2,554	2,529	2,532	2,401	2,613
Individual	380	381	363	391	389	355	351	384	328	277
Postdoctoral NRSA (F32)	371	353	317	334	344	329	327	365	310	261
NRSA to senior fellows (F33)	7	6	7	11	6	2	3	9	7	8
MARC NRSA faculty fellowships (F34)	2	2	1	—	—	—	—	—	—	—
Intramural NRSA postdoctoral (F35)	—	20	38	46	39	24	21	10	11	8
Institutional	1,963	2,124	2,182	2,250	2,246	2,199	2,178	2,148	2,073	2,336
NRSA (T32)	1,960	2,119	2,170	2,230	2,227	2,180	2,161	2,142	2,071	n.a.
NRSA short-term research training (T35)	3	5	12	20	19	19	17	6	2	n.a.

^a Revised. Based on year of funding. Excludes FIC. "M.D." includes equivalent professional doctorates. "Ph.D." includes equivalent academic doctorates. "M.D. and Ph.D." or equivalent included under "M.D."

NOTE: Number of appointments differs from corresponding number of FFTP (see Table 42) because a trainee in a part-time position is counted as a full unit under appointments but as a fraction of a unit under FFTP. In addition, these data are not strictly comparable with FFTP counts because of somewhat different methods used by the two data sources.

Source: Information Systems Branch, DRG
(Continued)

Table 41 (Cont.)

**Number of Appointments in NIH Research Training
Programs by Academic Level and Type,^a
Fiscal Years 1984–1993**

Type of appointment	1984	1985	1986	1987	1988	1989	1990	1991 (est.)	1992 (est.)	1993 (est.)
Total of A or B	13,201	13,215	12,818	13,423	13,282	13,288	14,005	14,822	14,542	14,146
<i>A. ACADEMIC LEVEL (cont.)</i>										
Postdoctoral (cont.)										
Ph.D.	3,602	3,780	3,543	3,588	3,285	3,185	3,623	3,744	3,627	3,760
Individual	1,285	1,491	1,282	1,408	1,306	1,222	1,364	1,324	1,365	1,410
Postdoctoral NRSA (F32)	1,238	1,440	1,241	1,373	1,262	1,169	1,326	1,294	1,335	1,376
NRSA to senior fellows (F33)	25	24	21	21	24	34	25	18	18	20
MARC NRSA faculty fellowships (F34)	22	22	16	9	7	9	6	4	4	8
Intramural NRSA postdoctoral (F35)	–	5	4	5	13	10	7	8	8	6
Institutional	2,317	2,289	2,261	2,180	1,979	1,963	2,259	2,420	2,262	2,350
NRSA (T32)	2,258	2,234	2,196	2,141	1,966	1,955	2,246	2,417	2,256	n.a.
NRSA short-term research training (T35)	59	55	65	39	13	8	13	3	6	n.a.
<i>B. TYPE OF APPOINTMENT</i>										
Individual	1,778	1,987	1,826	2,069	1,970	1,872	2,055	2,223	2,229	2,276
Predocctoral (F30, F31, F34)	113	115	181	270	275	295	340	515	536	589
Postdoctoral	1,665	1,872	1,645	1,799	1,695	1,577	1,715	1,708	1,693	1,687
F32	1,609	1,793	1,558	1,707	1,606	1,498	1,653	1,659	1,645	1,637
F33, F34, F35	56	79	87	92	89	79	62	49	48	50
Institutional	11,423	11,228	10,992	11,354	11,312	11,416	11,950	12,599	12,313	11,870
Predocctoral	7,143	6,815	6,549	6,924	7,087	7,254	7,513	8,031	7,978	7,184
T32 (including MSTP)	5,243	5,132	4,993	5,415	5,522	5,629	6,141	6,466	6,360	5,524
T34	553	483	491	454	511	529	549	671	674	319
T35	1,347	1,200	1,065	1,055	1,054	1,096	823	894	944	1,341
Postdoctoral	4,280	4,413	4,443	4,430	4,225	4,162	4,437	4,568	4,335	4,686
T32	4,218	4,353	4,366	4,371	4,193	4,135	4,407	4,559	4,327	4,672
T35	62	60	77	59	32	27	30	9	8	14

See footnote on first page of table.

Figure 41.1

**NIH Postdoctoral Training Appointments,
Fiscal Year 1993 (est.)**

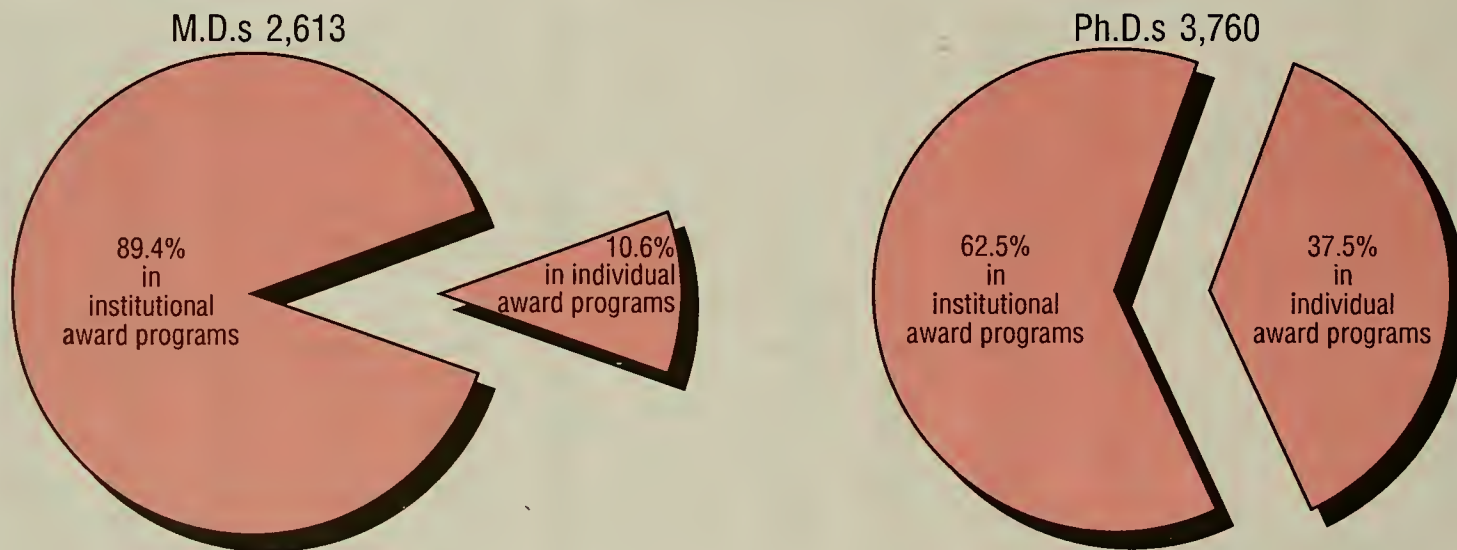
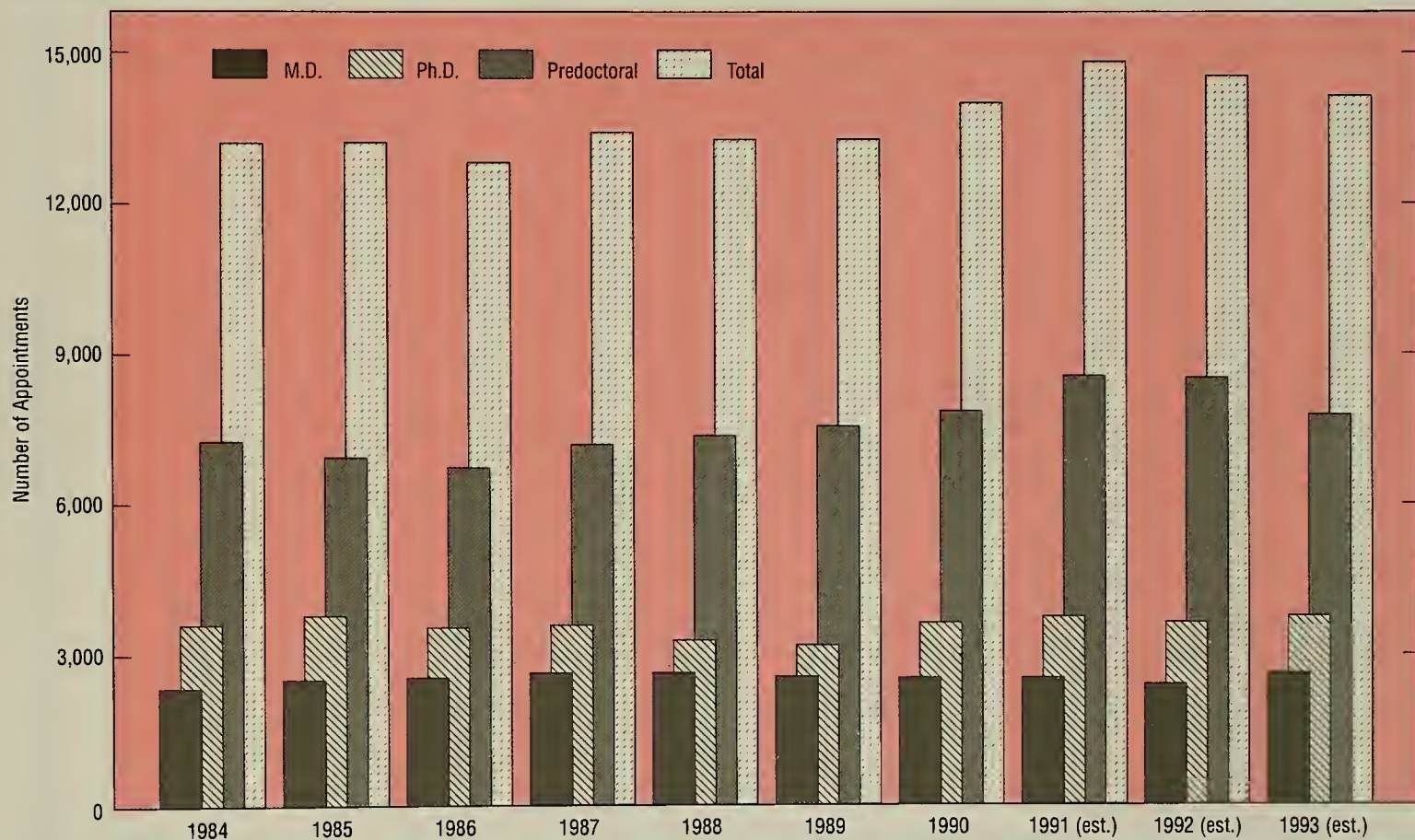


Figure 41.2

**Number of Appointments in NIH Research Training
Programs by Academic Level, Fiscal Years 1984–1993**



Source: Information Systems Branch, DRG

Table 42

**Number of NIH Full-Time-Equivalent Training Positions (FTTP)^a
by Academic Level, NIH Component, and Type,
Fiscal Years 1984–1993**

Fiscal year and academic level	Total NIH			NIA			NIAAA			NIAID			NIADDK			NIAMS		
	Total	Indiv.	Inst.	Total	Indiv.	Inst.	Total	Indiv.	Inst.	Total	Indiv.	Inst.	Total	Indiv.	Inst.	Total	Indiv.	Inst.
1984	10,514	1,606	8,908	161	18	143	n.a.	n.a.	n.a.	494	90	404	977	199	778	–	–	–
Predoctoral	5,149	51	5,098	71	–	71	n.a.	n.a.	n.a.	147	–	147	70	–	70	–	–	–
Postdoctoral	5,365	1,555	3,810	90	18	72	n.a.	n.a.	n.a.	347	90	257	907	199	708	–	–	–
1985	10,624	1,831	8,793	227	24	203	n.a.	n.a.	n.a.	518	75	443	1,046	203	843	–	–	–
Predoctoral	4,963	52	4,911	93	–	93	n.a.	n.a.	n.a.	163	–	163	107	–	107	–	–	–
Postdoctoral	5,661	1,779	3,882	134	24	110	n.a.	n.a.	n.a.	355	75	280	939	203	736	–	–	–
1986	10,382	1,753	8,629	263	31	232	n.a.	n.a.	n.a.	487	67	420	987	195	792	–	–	–
Predoctoral	5,011	204	4,807	98	–	98	n.a.	n.a.	n.a.	156	–	156	99	–	99	–	–	–
Postdoctoral	5,371	1,549	3,822	165	31	134	n.a.	n.a.	n.a.	331	67	264	888	195	693	–	–	–
1987	11,181	1,877	9,304	313	36	277	n.a.	n.a.	n.a.	491	71	420	–	–	–	242	40	202
Predoctoral	5,438	196	5,242	137	–	137	n.a.	n.a.	n.a.	155	–	155	–	–	–	15	–	15
Postdoctoral	5,743	1,681	4,062	176	36	140	n.a.	n.a.	n.a.	336	71	265	–	–	–	227	40	187
1988	11,329	1,795	9,534	344	36	308	n.a.	n.a.	n.a.	561	100	461	–	–	–	238	35	203
Predoctoral	5,560	191	5,369	139	–	139	n.a.	n.a.	n.a.	173	–	173	–	–	–	17	–	17
Postdoctoral	5,769	1,604	4,165	205	36	169	n.a.	n.a.	n.a.	388	100	288	–	–	–	221	35	186
1989	11,225	1,696	9,529	387	32	355	n.a.	n.a.	n.a.	579	94	485	–	–	–	219	29	190
Predoctoral	5,726	205	5,521	167	–	167	n.a.	n.a.	n.a.	189	–	189	–	–	–	14	–	14
Postdoctoral	5,499	1,491	4,008	220	32	188	n.a.	n.a.	n.a.	390	94	296	–	–	–	205	29	176
1990	11,767	1,847	9,920	426	33	393	n.a.	n.a.	n.a.	711	106	605	–	–	–	228	32	196
Predoctoral	5,999	230	5,769	190	–	190	n.a.	n.a.	n.a.	225	–	225	–	–	–	10	–	10
Postdoctoral	5,768	1,617	4,151	236	33	203	n.a.	n.a.	n.a.	486	106	380	–	–	–	218	32	186
1991	12,414	1,933	10,481	418	34	384	n.a.	n.a.	n.a.	754	136	618	–	–	–	215	35	180
Predoctoral	6,619	322	6,297	175	–	175	n.a.	n.a.	n.a.	243	–	243	–	–	–	14	2	12
Postdoctoral	5,795	1,611	4,184	243	34	209	n.a.	n.a.	n.a.	511	136	375	–	–	–	201	33	168
1992	12,629	1,969	10,660	436	30	406	n.a.	n.a.	n.a.	774	127	647	–	–	–	233	41	192
Predoctoral	6,807	360	6,447	200	4	196	n.a.	n.a.	n.a.	259	–	259	–	–	–	14	4	10
Postdoctoral	5,822	1,609	4,213	236	26	210	n.a.	n.a.	n.a.	515	127	388	–	–	–	219	37	182
1993	14,291	2,271	12,020	456	33	423	149	19	130	801	128	673	–	–	–	218	35	183
Predoctoral	7,789	572	7,217	205	3	202	64	12	52	281	4	277	–	–	–	14	2	12
Postdoctoral	6,502	1,699	4,803	251	30	221	85	7	78	520	124	396	–	–	–	204	33	171

^a Based on year of funding. Excludes FIC F05, F06, and F15 fellowships and NLM training programs.

Source: Office of Financial Management
(Continued)

Table 42 (Cont.)

**Number of NIH Full-Time-Equivalent Training Positions (FTTP)^a
by Academic Level, NIH Component, and Type,
Fiscal Years 1984–1993**

Fiscal year and academic level	NCI			NICHD			NIDCD			NIDR			NIDDK			NIDA		
	Total	Indiv.	Inst.	Total	Indiv.	Inst.	Total	Indiv.	Inst.	Total	Indiv.	Inst.	Total	Indiv.	Inst.	Total	Indiv.	Inst.
1984	1,465	178	1,287	656	113	543	–	–	–	221	41	180	–	–	–	n.a.	n.a.	n.a.
Predoctoral	566	–	566	326	–	326	–	–	–	57	–	57	–	–	–	n.a.	n.a.	n.a.
Postdoctoral	899	178	721	330	113	217	–	–	–	164	41	123	–	–	–	n.a.	n.a.	n.a.
1985	1,464	241	1,223	702	127	575	–	–	–	197	37	160	–	–	–	n.a.	n.a.	n.a.
Predoctoral	542	2	540	333	–	333	–	–	–	44	–	44	–	–	–	n.a.	n.a.	n.a.
Postdoctoral	922	239	683	369	127	242	–	–	–	153	37	116	–	–	–	n.a.	n.a.	n.a.
1986	1,394	174	1,220	728	115	613	–	–	–	192	45	147	–	–	–	n.a.	n.a.	n.a.
Predoctoral	521	4	517	344	–	344	–	–	–	44	–	44	–	–	–	n.a.	n.a.	n.a.
Postdoctoral	873	170	703	384	115	269	–	–	–	148	45	103	–	–	–	n.a.	n.a.	n.a.
1987	1,475	175	1,300	736	99	637	–	–	–	225	55	170	915	164	751	n.a.	n.a.	n.a.
Predoctoral	577	9	568	360	–	360	–	–	–	61	–	61	133	–	133	n.a.	n.a.	n.a.
Postdoctoral	898	166	732	376	99	277	–	–	–	164	55	109	782	164	618	n.a.	n.a.	n.a.
1988	1,456	141	1,315	723	102	621	–	–	–	224	44	180	916	167	749	n.a.	n.a.	n.a.
Predoctoral	568	8	560	353	–	353	–	–	–	63	–	63	127	1	126	n.a.	n.a.	n.a.
Postdoctoral	888	133	755	370	102	268	–	–	–	161	44	117	789	166	623	n.a.	n.a.	n.a.
1989	1,428	162	1,266	640	86	554	105	16	89	189	35	154	825	130	695	n.a.	n.a.	n.a.
Predoctoral	548	8	540	308	–	308	23	–	23	56	–	56	144	–	144	n.a.	n.a.	n.a.
Postdoctoral	880	154	726	332	86	246	82	16	66	133	35	98	681	130	551	n.a.	n.a.	n.a.
1990	1,485	181	1,304	677	90	587	112	24	88	195	33	162	804	135	669	n.a.	n.a.	n.a.
Predoctoral	567	10	557	312	–	312	20	–	20	60	–	60	125	–	125	n.a.	n.a.	n.a.
Postdoctoral	918	171	747	365	90	275	92	24	68	135	33	102	679	135	544	n.a.	n.a.	n.a.
1991	1,497	180	1,317	723	104	619	142	31	111	211	32	179	843	143	700	n.a.	n.a.	n.a.
Predoctoral	584	15	569	334	–	334	36	–	36	71	–	71	130	5	125	n.a.	n.a.	n.a.
Postdoctoral	913	165	748	389	104	285	106	31	75	140	32	108	713	138	575	n.a.	n.a.	n.a.
1992	1,491	167	1,324	743	103	640	166	29	137	205	35	170	849	132	717	n.a.	n.a.	n.a.
Predoctoral	597	24	573	353	2	351	48	1	47	71	–	71	155	5	150	n.a.	n.a.	n.a.
Postdoctoral	894	143	751	390	101	289	118	28	90	134	35	99	694	127	567	n.a.	n.a.	n.a.
1993	1,446	175	1,271	767	116	651	189	35	154	200	23	177	865	151	714	302	65	237
Predoctoral	578	32	546	358	2	356	67	3	64	73	1	72	72	8	64	136	34	102
Postdoctoral	868	143	725	409	114	295	122	32	90	127	22	105	793	143	650	166	31	135

See footnote on first page of table.

(Continued)

Table 42 (Cont.)

**Number of NIH Full-Time-Equivalent Training Positions (FTTP)^a
by Academic Level, NIH Component, and Type,
Fiscal Years 1984-1993**

Fiscal year and academic level	NIEHS			NEI			NIGMS			NHLBI			NIMH		
	Total	Indiv.	Inst.	Total	Indiv.	Inst.	Total	Indiv.	Inst.	Total	Indiv.	Inst.	Total	Indiv.	Inst.
1984	448	28	420	222	85	137	3,581	419	3,162	1,688	219	1,469	n.a.	n.a.	n.a.
Predoctoral	255	-	255	37	-	37	3,067	51	3,016	443	-	443	n.a.	n.a.	n.a.
Postdoctoral	193	28	165	185	85	100	514	368	146	1,245	219	1,026	n.a.	n.a.	n.a.
1985	483	44	439	220	111	109	3,396	502	2,894	1,709	210	1,499	n.a.	n.a.	n.a.
Predoctoral	262	-	262	25	-	25	2,820	50	2,770	465	-	465	n.a.	n.a.	n.a.
Postdoctoral	221	44	177	195	111	84	576	452	124	1,244	210	1,034	n.a.	n.a.	n.a.
1986	446	43	403	232	118	114	3,238	443	2,795	1,633	188	1,445	n.a.	n.a.	n.a.
Predoctoral	243	-	243	33	-	33	2,743	59	2,684	459	-	459	n.a.	n.a.	n.a.
Postdoctoral	203	43	160	199	118	81	495	384	111	1,174	188	986	n.a.	n.a.	n.a.
1987	462	41	421	229	101	128	3,566	556	3,010	1,666	193	1,473	n.a.	n.a.	n.a.
Predoctoral	268	-	268	37	-	37	2,946	60	2,886	460	-	460	n.a.	n.a.	n.a.
Postdoctoral	194	41	153	192	101	91	620	496	124	1,206	193	1,013	n.a.	n.a.	n.a.
1988	480	36	444	252	81	171	3,587	490	3,097	1,655	218	1,437	n.a.	n.a.	n.a.
Predoctoral	281	-	281	69	-	69	3,031	62	2,969	451	-	451	n.a.	n.a.	n.a.
Postdoctoral	199	36	163	183	81	102	556	428	128	1,204	218	986	n.a.	n.a.	n.a.
1989	434	35	399	251	77	174	3,702	480	3,222	1,628	188	1,440	n.a.	n.a.	n.a.
Predoctoral	272	-	272	85	-	85	3,158	60	3,098	456	-	456	n.a.	n.a.	n.a.
Postdoctoral	162	35	127	166	77	89	544	420	124	1,172	188	984	n.a.	n.a.	n.a.
1990	481	37	444	258	84	174	3,838	505	3,333	1,519	214	1,305	n.a.	n.a.	n.a.
Predoctoral	304	-	304	95	-	95	3,260	66	3,194	378	-	378	n.a.	n.a.	n.a.
Postdoctoral	177	37	140	163	84	79	578	439	139	1,141	214	927	n.a.	n.a.	n.a.
1991	556	50	506	261	95	166	4,215	564	3,651	1,567	201	1,366	n.a.	n.a.	n.a.
Predoctoral	359	-	359	112	-	112	3,642	141	3,501	435	-	435	n.a.	n.a.	n.a.
Postdoctoral	197	50	147	149	95	54	573	423	150	1,132	201	931	n.a.	n.a.	n.a.
1992	467	54	413	262	84	178	4,333	591	3,742	1,640	221	1,419	n.a.	n.a.	n.a.
Predoctoral	298	5	293	133	1	132	3,749	160	3,589	456	3	453	n.a.	n.a.	n.a.
Postdoctoral	169	49	120	129	83	46	584	431	153	1,184	218	966	n.a.	n.a.	n.a.
1993	460	45	415	280	102	178	4,325	583	3,742	1,557	211	1,346	1,289	237	1,052
Predoctoral	306	7	299	149	3	146	3,750	160	3,590	516	4	512	772	175	597
Postdoctoral	154	38	116	131	99	32	575	423	152	1,041	207	834	517	62	455

See footnote on first page of table.

(Continued)

Table 42 (Cont.)

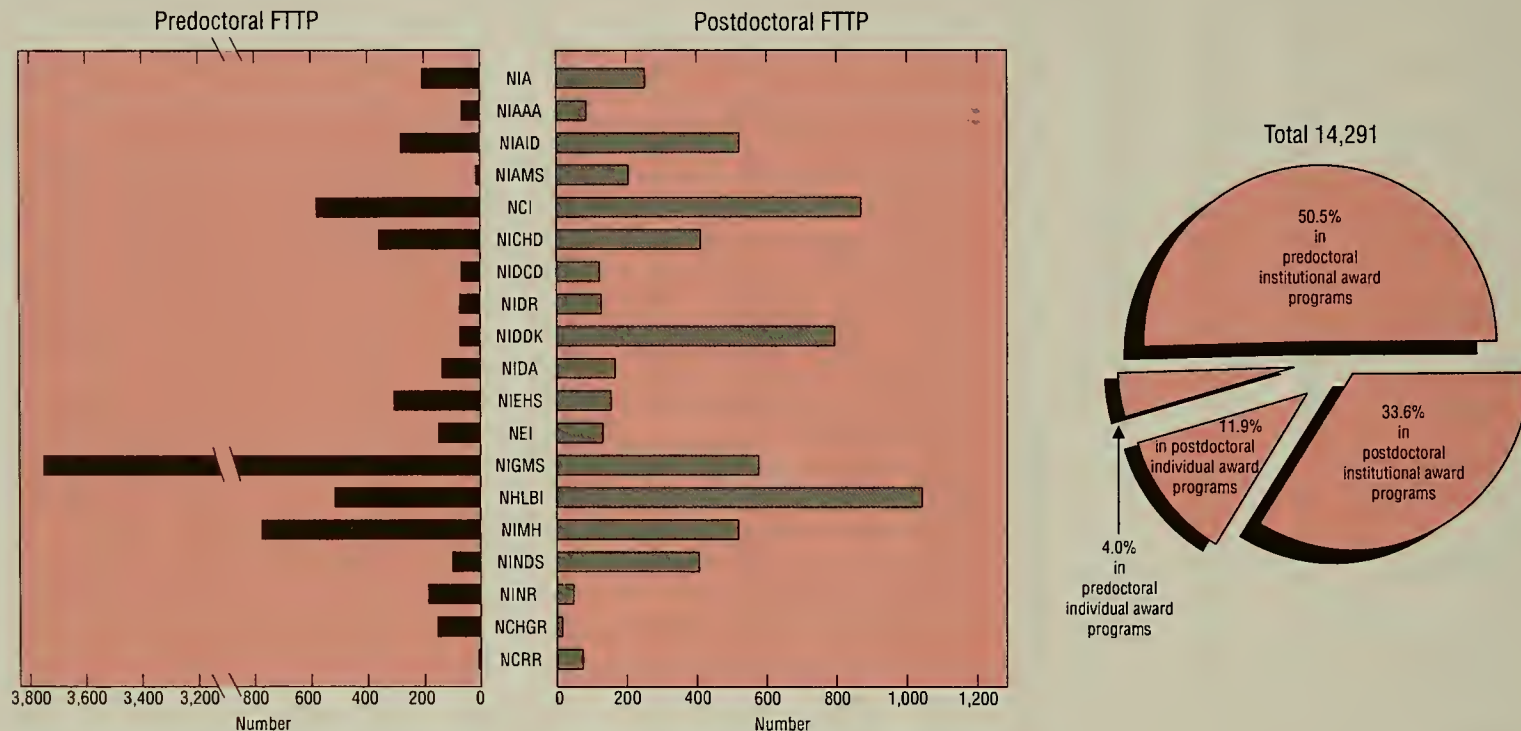
**Number of NIH Full-Time-Equivalent Training Positions (FTTP)^a
by Academic Level, NIH Component, and Type,
Fiscal Years 1984–1993**

Fiscal year and academic level	NINCDS			NINDS			DRR/NCRR			NCHGR			NCNR/NINR		
	Total	Indiv.	Inst.	Total	Indiv.	Inst.	Total	Indiv.	Inst.	Total	Indiv.	Inst.	Total	Indiv.	Inst.
1984	565	213	352	–	–	–	36	3	33	–	–	–	–	–	–
Predoctoral	109	–	109	–	–	–	1	–	1	–	–	–	–	–	–
Postdoctoral	456	213	243	–	–	–	35	3	32	–	–	–	–	–	–
1985	623	253	370	–	–	–	39	4	35	–	–	–	–	–	–
Predoctoral	109	–	109	–	–	–	–	–	–	–	–	–	–	–	–
Postdoctoral	514	253	261	–	–	–	39	4	35	–	–	–	–	–	–
1986	581	180	401	–	–	–	36	3	33	–	–	–	165	151	14
Predoctoral	120	–	120	–	–	–	–	–	–	–	–	–	151	141	10
Postdoctoral	461	180	281	–	–	–	36	3	33	–	–	–	14	10	4
1987	653	212	441	–	–	–	41	3	38	–	–	–	167	131	36
Predoctoral	135	–	135	–	–	–	–	–	–	–	–	–	154	127	27
Postdoctoral	518	212	306	–	–	–	41	3	38	–	–	–	13	4	9
1988	640	210	430	–	–	–	67	4	63	–	–	–	186	131	55
Predoctoral	128	–	128	–	–	–	–	–	–	–	–	–	160	120	40
Postdoctoral	512	210	302	–	–	–	67	4	63	–	–	–	26	11	15
1989	–	–	–	546	179	367	73	3	70	–	–	–	219	150	69
Predoctoral	–	–	–	119	–	119	–	–	–	–	–	–	187	137	50
Postdoctoral	–	–	–	427	179	248	73	3	70	–	–	–	32	13	19
1990	–	–	–	564	186	378	82	9	73	130	10	120	257	168	89
Predoctoral	–	–	–	115	–	115	1	–	1	120	–	120	217	154	63
Postdoctoral	–	–	–	449	186	263	81	9	72	10	10	–	40	14	26
1991	–	–	–	503	141	362	82	5	77	158	20	138	269	162	107
Predoctoral	–	–	–	109	–	109	2	–	2	144	6	138	229	153	76
Postdoctoral	–	–	–	394	141	253	80	5	75	14	14	–	40	9	31
1992	–	–	–	516	164	352	82	7	75	171	30	141	261	154	107
Predoctoral	–	–	–	103	–	103	4	2	2	148	7	141	219	142	77
Postdoctoral	–	–	–	413	164	249	78	5	73	23	23	–	42	12	30
1993	–	–	–	504	162	342	80	3	77	170	24	146	233	124	109
Predoctoral	–	–	–	100	–	100	7	1	6	155	9	146	186	112	74
Postdoctoral	–	–	–	404	162	242	73	2	71	15	15	–	47	12	35

See footnote on first page of table.

Figure 42.1

**Number of NIH Full-Time-Equivalent Training Positions (FTTP)^a
by Academic Level, NIH Component, and Type,
Fiscal Year 1993**



^a Based on year of funding. Excludes FIC F05, F06, and F15 fellowships and NLM training programs.

Table 43

**Clinical Center Data by NIH Component,
Fiscal Years 1987, 1990, and 1993**

Component	Inpatient admissions			Inpatient days ^a			Average length of stay ^b			Number of beds (end of year)			Outpatient visits ^c		
	1987	1990	1993	1987	1990	1993	1987	1990	1993	1987	1990	1993	1987	1990	1993
Total	8,220	9,317	8,840	106,963	98,276	78,048	12	10	9	490	457	385	66,683	76,268	81,127
NIA	116	126	99	899	1,407	863	8	11	9	6	8	8	212	294	230
NIAAA	124	104	111	7,253	5,215	3,463	55	47	32	10	10	10	1,427	1,056	728
NIAID	832	998	972	10,951	9,852	5,603	13	10	6	50	50	18	5,078	7,737	9,352
NIAMS	390	461	101	2,570	2,464	692	6	5	7	16	12	9	—	2,486	1,903
NCI	2,885	2,995	3,476	26,373	27,313	25,837	9	9	7	109	116	109	20,584	25,930	35,245
NICHD	929	900	820	7,767	6,736	5,342	8	8	7	44	44	42	2,801	3,230	2,288
NIDCD	—	3	14	—	23	22	—	8	2	—	2	2	—	15	299
NIDR	48	35	24	132	63	68	3	2	3	4	2	2	7,366	5,243	3,237
NIDDK	628	855	695	7,186	6,476	5,017	12	8	7	40	40	20	5,764	3,356	4,160
NEI	247	322	241	1,476	2,755	1,557	6	9	7	12	12	12	6,182	6,026	3,783
NHLBI	1,659	1,502	1,221	18,949	14,052	11,265	11	9	9	89	72	56	4,018	4,887	4,864
NIMH	319	295	332	14,903	14,441	11,839	48	46	33	57	57	56	9,684	10,561	10,318
NINCDS	490	—	—	7,919	—	—	13	—	—	47	—	—	3,125	—	—
NINDS	—	613	683	—	6,683	6,163	—	11	9	—	24	35	—	4,900	4,335
CC ^d	71	108	51	585	796	317	10	8	7	6	8	8	442	547	385

^a Summation of daily censuses.^b Average length of stay of discharged patients (number of days).^c Visits to a duly constituted institute outpatient treatment setting, including day hospitals.^d Clinical Center patients admitted to the Critical Care Department.

Source: NIH Clinical Center

Table 44

**NIH Personnel by Degree Held, Type of Occupation, NIH Component,
Program, and Status^a as of End of Fiscal Year 1993**

Total Staff, 17,528;^b Total Full-Time Equivalent (FTE), 16,490^c

Degree held and type of occupation	Total staff ^b	Permanent full-time						Other than permanent full-time ^d
		Total (program or status)	Program			Status		
			ODs of NIH and ICDs	Intramural research	Other	Civil service	Commissioned Officer Corps	
Total of A, B, or C	17,528	13,721	2,592	6,246	4,883	12,722	999	3,807

A. DEGREE HELD

Doctorate	4,772	2,663	228	1,521	914	2,018	645	2,109
M.D. ^e	1,957	922	58	692	172	365	557	1,035
Ph.D.	2,517	1,539	149	718	672	1,491	48	978
D.D.S. or D.M.D.	38	28	5	17	6	9	19	10
D.V.M.	45	41	3	26	12	23	18	4
Other	215	133	13	68	52	130	3	82
Other than doctorate	12,756	11,058	2,364	4,725	3,969	10,704	354	1,698

B. TYPE OF OCCUPATION

Professional	8,629	5,559	325	3,803	1,431	4,594	965	3,070
Administrative	3,124	2,909	1,378	564	967	2,880	29	215
Technical	2,559	2,368	424	1,054	890	2,364	4	191
Clerical	2,008	1,786	433	664	689	1,786	—	222
Wage grade	1,070	1,018	32	160	826	1,018	—	52
Other	138	81	—	1	80	80	1	57

^a Excludes personnel coded as ceiling exempt and student volunteers.

^b Number exceeds FTE because each person is counted as a full unit, whereas under FTE a person in a part-time position is counted as a fraction of a unit. Also includes some staff in without-pay status.

^c Excludes staff in without-pay status.

^d Includes staff fellows and visiting scientists.

^e Includes persons holding both M.D. and Ph.D. or equivalent.

Source: Division of Personnel Management
(Continued)

Table 44 (Cont.)

**NIH Personnel by Degree Held, Type of Occupation, NIH Component,
Program, and Status^a as of End of Fiscal Year 1993**

Total Staff, 17,528;^b Total Full-Time Equivalent (FTE), 16,490^c

NIH component	Total staff ^b	Permanent full-time						Other than permanent full-time ^d
		Total (program or status)	Program			Status		
			ODs of NIH and ICDs	Intramural research	Other	Civil service	Commissioned Officer Corps	
C. NIH COMPONENT								
NIA	471	342	100	193	49	319	23	129
NIAAA	285	198	72	74	52	183	15	87
NIAID	1,159	877	141	435	301	797	80	282
NIAMS	197	115	42	39	34	104	11	82
NCI	2,513	1,947	366	1,310	271	1,704	243	566
NICHD	564	364	95	182	87	327	37	200
NIDCD	180	99	45	21	33	99	—	81
NIDR	394	244	46	161	37	218	26	150
NIDDK	705	432	59	270	103	380	52	273
NIDA	428	345	147	84	114	318	27	83
NIEHS	743	557	207	205	145	540	17	186
NEI	270	174	35	113	26	167	7	96
NIGMS	199	158	113	2	43	155	3	41
NHLBI	981	705	124	276	305	638	67	276
NIMH	978	692	126	394	172	630	62	286
NINDS	712	490	68	298	124	439	51	222
NINR	67	47	—	6	41	43	4	20
FIC	83	63	18	—	45	63	—	20
NCHGR	94	55	40	6	9	55	—	39
NCRR	562	475	83	363	29	450	25	87
NLM	637	533	77	442	14	528	5	104
OD-NIH & management services	2,771	2,595	426	33	2,136	2,544	51	176
OD-NIH	481	364	331	33	—	350	14	117
OA	675	650	40	—	610	645	5	25
DRG	441	430	54	—	376	423	7	11
ORS	1,174	1,151	1	—	1,150	1,126	25	23
Central services	2,535	2,214	162	1,339	713	2,021	193	321
CC	2,225	1,919	129	1,226	564	1,732	187	306
DCRT	310	295	33	113	149	289	6	15

See footnotes on first page of table.

Table 45

**Mortality from Selected Causes, United States,
1981 and 1991**

Causes of death	Ninth ICD code ^a	1981			1991			Percentage change in death rates 1981-1991	
		Number	Percentage of all deaths	Death rates ^b	Rank	Number	Percentage of all deaths		Death rates ^b
Total		1,977,981	100.0%	568.6		2,169,518	100.0%	513.7	-9.7%
Major cardiovascular diseases (excluding cerebrovascular)	390-429,439-448	809,488	40.9	207.7	1	772,861	35.6	158.2	-23.8
Diseases of the heart	390-398,402,404-429	755,864	38.2	195.3		720,862	33.2	148.2	-24.1
Atherosclerosis	440	28,004	1.4	5.2		17,420	0.8	2.6	-50.0
Hypertension with or without renal disease	401,403	7,587	0.4	1.9		9,524	0.4	1.9	0.0
Malignant neoplasms	140-208	422,094	21.3	131.7	2	514,657	23.7	134.5	+2.1
Digestive organs and peritoneum	150-159	111,297	5.6	32.5		121,781	5.6	29.9	-8.0
Respiratory and intrathoracic	160-165	111,296	5.6	36.7		149,119	6.9	41.1	+12.0
Genital organs	179-187	46,732	2.4	13.4		58,944	2.7	13.6	+1.5
Female breast	174	36,483	1.8	22.7		43,583	2.0	22.7	0.0
Diseases of the respiratory system	460-519	131,329	6.6	33.9	3	195,433	9.0	39.1	+15.3
Pneumonia and influenza	480-487	53,731	2.7	12.3		77,860	3.6	13.4	+8.9
Chronic obstructive pulmonary diseases and allied conditions	490-496	58,832	3.0	16.3		90,650	4.2	20.1	+23.3
Supplementary classification of external causes of injury and poisoning	E800-E999	155,576	7.9	63.2	4	149,187	6.9	54.2	-14.2
Cerebrovascular diseases	430-438	163,504	8.3	38.2	5	143,481	6.6	26.8	-29.8
Diseases of the digestive system	520-579	74,103	3.7	23.7	6	75,558	3.5	19.0	-19.8
Chronic liver diseases and cirrhosis	571	29,308	1.5	11.4		25,429	1.2	8.3	-27.2
Endocrine, nutritional, and metabolic diseases, and immunity disorders	240-279	45,811	2.3	13.0	7	65,823	3.0	15.7	+20.8
Diabetes mellitus	250	34,642	1.8	9.8		48,951	2.3	11.8	+20.4
Infective and parasitic diseases	001-139	18,514	0.9	5.6	8	60,398	2.8	18.7	+233.9
Human immunodeficiency virus infection	042-044	n.a.	n.a.	n.a.		29,555	1.4	11.3	n.a.
Diseases of the nervous system and sense organs	320-389	22,571	1.1	7.4	9	40,009	1.8	9.0	+21.6
Diseases of the genitourinary system	580-629	29,600	1.5	7.3	10	39,533	1.8	7.5	+2.7
Certain conditions originating in the perinatal period	760-779	21,626	1.1	9.2	11	16,781	0.8	6.4	-30.4
Congenital anomalies	740-759	13,527	0.7	5.7	12	12,599	0.6	4.7	-17.5
All other diseases	Residual	70,238	3.6	22.0		83,198	3.8	19.9	-9.5

^a Ninth Revision International Classification of Diseases, 1975 (ICD).

^b Age-adjusted death rates per 100,000 population (1940 standard).

Source: Data from NCHS, CDC, HHS, prepared by NHLBI, NIH
(Continued)

Table 45 (Cont.)

**Mortality from Selected Causes, United States,
1981 and 1991**

Causes of death	Ninth ICD code ^a	By gender and race											
		1991 death rates ^b				1991 ranks by numbers of deaths				Percentage change in death rates 1981-1991			
		Males		Females		Males		Females		Males		Females	
		White	Black	White	Black	White	Black	White	Black	White	Black	White	Black
Total		634.7	1,048.8	366.3	575.1					-12.4	-1.9	-8.8	-4.6
Major cardiovascular diseases (excluding cerebrovascular)	390-429,439-448	209.0	290.5	107.6	178.8	1	1	1	1	-26.9	-13.4	-22.4	-13.4
Diseases of the heart	390-398,402,404-429	196.1	272.7	100.7	165.5					-27.2	-13.7	-22.5	-13.7
Atherosclerosis	440	3.0	3.5	2.2	2.5					-50.0	-45.3	-51.1	-51.9
Hypertension with or without renal disease	401,403	1.7	6.9	1.3	5.8					-10.5	+11.3	0.0	+7.4
Malignant neoplasms	140-208	159.5	242.4	111.2	136.3	2	2	2	2	+0.6	+4.8	+3.5	+7.1
Digestive organs and peritoneum	150-159	36.7	60.6	21.8	33.7					-6.6	-2.1	-12.1	-2.6
Respiratory and intrathoracic	160-165	58.1	88.4	26.8	27.4					+0.3	+5.5	+42.6	+36.3
Genital organs	179-187	15.7	35.7	11.8	16.6					+15.4	+17.8	-9.2	-7.3
Female breast	174	-	-	22.5	27.6					-	-	-1.7	+16.5
Diseases of the respiratory system	460-519	51.4	62.7	30.4	30.9	3	3	5	4	+3.6	+5.7	+37.6	+30.9
Pneumonia and influenza	480-487	16.6	26.2	10.2	13.5					+6.4	-0.8	+13.3	+18.4
Chronic obstructive pulmonary diseases and allied conditions	490-496	27.4	25.9	16.1	11.3					+1.9	+21.0	+62.6	+76.6
Supplementary classification of external causes of injury and poisoning	E800-E999	74.5	148.5	25.2	36.6	4	5	3	6	-17.4	-7.0	-16.3	-4.9
Cerebrovascular diseases	430-438	26.9	54.9	22.8	41.0	5	4	6	3	-30.8	-24.4	-31.1	-29.6
Diseases of the digestive system	520-579	23.0	38.1	13.6	21.5	6	6	7	8	-19.6	-24.4	-6.2	-21.0
Chronic liver diseases and cirrhosis	571	11.2	17.4	4.8	8.2					-24.8	-36.0	-28.4	-35.4
Endocrine, nutritional, and metabolic diseases, and immunity disorders	240-279	15.7	32.6	12.7	31.8	8	7	8	5	+26.6	+43.0	+12.4	+18.2
Diabetes mellitus	250	11.5	24.6	9.6	25.7					+23.7	+47.3	+14.3	+20.1
Infective and parasitic diseases	001-139	24.4	74.9	6.4	25.8	7	10	4	7	+313.6	+356.7	+60.0	+138.9
Human immunodeficiency virus infection	042-044	16.2	52.9	1.3	12.8					n.a.	n.a.	n.a.	n.a.
Diseases of the nervous system and sense organs	320-389	10.7	11.5	7.7	8.2	10	9	10	9	+23.0	-4.2	+28.3	+6.5
Diseases of the genitourinary system	580-629	7.7	21.9	5.6	15.1	9	8	11	11	-4.9	+7.9	+7.7	+1.3
Certain conditions originating in the perinatal period	760-779	5.5	16.6	4.3	12.9	11	12	10	9	-35.3	-21.0	-34.8	-24.6
Congenital anomalies	740-759	5.0	6.2	4.2	5.0	12	11	12	12	-16.7	-6.1	-22.2	-16.7
All other diseases	Residual	21.4	48.0	14.6	31.2					-8.9	-21.3	-14.6	-17.9

See footnotes on first page of table.

Table 46

Morbidity from Selected Acute Conditions, United States,^a 1992

Condition	Total incidence (thousands)	Age-adjusted rates ^b					
		Cases per 100 persons per year				Days per 100 persons per year	
		Male	Female	White	Black	Restricted activity	Bed disability
Total	457,150	164.4	200.4	194.4	144.0	723.2	301.8
Infective and parasitic diseases	56,243	19.1	26.7	24.6	19.1	77.0	38.0
Common childhood diseases	5,967	2.0	2.9	2.6	2.8	13.6	6.4
Intestinal virus, unspecified	13,451	5.1	5.8	5.7	5.4	13.1	6.2
Viral infections, unspecified	17,507	5.7	8.5	7.6	5.7	20.0	10.9
Other	19,318	6.3	9.5	8.6	5.3	30.2	14.6
Respiratory conditions	215,358	77.2	95.3	93.2	56.8	285.8	138.5
Common cold	64,604	22.9	28.7	26.9	23.4	63.2	22.5
Other acute upper respiratory infections	24,812	8.7	11.4	11.1	5.6	28.4	12.8
Influenza	107,309	38.9	47.0	46.6	24.9	146.9	78.9
Bronchitis	10,257	3.6	4.5	4.8	0.9 ^c	18.4	8.3
Pneumonia	3,910	1.5	1.6	1.7	1.0 ^c	18.4	10.0
Other respiratory conditions	4,465	1.6	1.9	2.0	1.0 ^c	10.5	6.1
Digestive system conditions	17,594	7.1	7.0	6.9	7.5	26.8	12.3
Dental conditions	2,799	1.0	1.2	1.1	1.7 ^c	3.1	1.7 ^c
Indigestion, nausea, and vomiting	9,232	3.8	3.8	3.5	4.4	8.0	4.2
Other digestive conditions	5,564	2.4	2.0	2.3	1.4 ^c	15.6	6.5

^a National estimates based on household interviews of the civilian noninstitutionalized population. Excludes conditions requiring neither medical attention nor any restriction of activity.

^b Age-adjusted incidence and disability rates per 100 persons per year (standard is 1980 civilian noninstitutionalized population of the United States).

^c Estimate has a relative standard error greater than 30 percent and is therefore considered unreliable.

Source: Derived from published data from NCHS, CDC, HHS
(Continued)

Table 46 (Cont.)

Morbidity from Selected Acute Conditions, United States,^a 1992

Condition	Total incidence (thousands)	Age-adjusted rates ^b					
		Cases per 100 persons per year				Days per 100 persons per year	
		Male	Female	White	Black	Restricted activity	Bed disability
Injuries	59,550	26.7	20.8	24.8	21.2	147.3	38.7
Fractures and dislocations	7,764	3.8	2.5	3.4	1.6 ^c	49.5	12.3
Sprains and strains	13,795	5.7	5.2	5.5	5.7	33.2	7.4
Open wounds and lacerations	12,370	6.4	3.6	5.2	3.9	15.1	4.5
Contusions and superficial injuries	10,668	5.0	3.6	4.4	4.8	16.8	3.8
Other current injuries	14,953	5.9	5.9	6.2	5.3	32.8	10.7
Selected other conditions	75,846	23.3	36.2	32.1	25.3	128.2	50.9
Eye conditions	2,985	1.1	1.2	1.2	1.0 ^c	1.0 ^c	0.2 ^c
Ear infections	26,035	9.5	10.9	12.0	5.7	22.8	9.5
Other ear conditions	4,266	1.8	1.7	2.0	0.4 ^c	2.3 ^c	0.7 ^c
Urinary conditions	7,983	1.1	5.0	3.3	2.5 ^c	12.7	5.5
Disorders of menstruation	1,377	—	1.1	0.6	0.6 ^c	1.7 ^c	0.7 ^c
Other disorders of female genital tract	2,222	—	1.7	0.9	0.5 ^c	3.5	1.8 ^c
Delivery and other conditions of pregnancy and puerperium	4,317	—	3.3	1.6	2.2 ^c	29.6	11.9
Skin conditions	5,557	1.9	2.5	2.4	1.8 ^c	6.1	1.9 ^c
Musculoskeletal conditions	10,496	3.7	4.5	3.9	5.6	38.3	12.8
Headache, excluding migraine	3,983	1.4	1.8	1.4	2.9	5.7	3.1
Fever, unspecified	6,627	2.8	2.6	2.6	2.1 ^c	4.6	2.8
All other conditions	32,559	11.0	14.4	12.9	14.1	58.0	23.4

See footnotes on first page of table.

Table 47

**Morbidity from Selected Chronic Conditions,
United States,^a 1992**

Condition	Number of cases (thousands)	Age-adjusted prevalence rates ^b			
		Male	Female	White	Black
Selected conditions of the genitourinary, nervous, endocrine, metabolic, and blood and blood-forming systems					
Goiter or other disorders of the thyroid	4,245	6.1	26.0	17.7	9.6
Diabetes	7,417	26.8	29.9	26.9	44.2
Anemias	3,836	5.6	24.5	12.5	28.0
Epilepsy	1,123	4.2	4.8	4.3	6.1
Migraine headache	10,627	23.1	61.3	44.3	33.5
Neuralgia or neuritis, unspecified	646	1.7	3.1	2.5	2.7 ^c
Kidney trouble	3,375	9.6	16.7	13.2	16.3
Bladder disorders	3,475	4.0	22.4	11.5	10.3
Diseases of the prostate	2,048	17.3	—	7.4	11.5 ^c
Diseases of the female genital organs	4,722	—	37.3	19.7	15.5
Selected circulatory conditions					
Rheumatic fever with or without heart disease	2,163	5.2	11.7	9.2	4.9 ^c
Heart disease	21,584	87.1	79.2	84.3	76.6
Ischemic heart disease	8,155	41.1	22.0	32.2	20.0
Heart rhythm disorders	8,163	25.0	38.0	31.9	33.6
Tachycardia or rapid heart	2,007	5.7	9.5	8.2	7.3
Heart murmurs	4,431	13.5	21.4	16.9	22.9
Other and unspecified heart rhythm disorders	1,726	5.8	7.1	6.9	3.3 ^c
Other selected diseases of heart (excludes hypertension)	5,266	20.9	19.1	20.2	22.9
High blood pressure (hypertension)	27,816	107.9	106.0	101.4	158.3
Cerebrovascular disease	3,262	13.8	10.8	11.2	21.4
Hardening of the arteries	2,281	10.2	7.0	8.8	3.5 ^c
Varicose veins of lower extremities	7,281	13.6	42.0	30.1	21.4
Hemorrhoids	9,562	35.2	40.5	39.5	30.4

^a National estimates based on household interviews of the civilian noninstitutionalized population. Excludes cancer and mental illness.

^b Age-adjusted prevalence rates per 1,000 persons (standard is 1980 civilian noninstitutionalized population of the United States).

^c Estimate has a relative standard error of greater than 30 percent and is therefore considered unreliable.

Source: Derived from published data from NCHS, CDC, HHS
(Continued)

Table 47 (Cont.)

**Morbidity from Selected Chronic Conditions,
United States,^a 1992**

Condition	Number of cases (thousands)	Age-adjusted prevalence rates ^b			
		Male	Female	White	Black
Selected respiratory conditions					
Chronic bronchitis	13,494	44.0	62.5	56.4	40.0
Asthma	12,375	44.9	53.3	49.5	56.4
Hay fever or allergic rhinitis without asthma	25,698	97.2	107.1	107.0	81.3
Chronic sinusitis	36,659	118.8	171.0	149.1	141.9
Deviated nasal septum	1,905	8.2	7.1	8.8	0.6 ^c
Chronic disease of tonsils or adenoids	3,041	8.9	15.5	13.1	10.1
Emphysema	1,915	9.8	5.2	7.8	3.0 ^c
Selected skin and musculoskeletal conditions					
Arthritis	33,317	99.4	152.1	130.2	123.2
Gout, including gouty arthritis	2,113	13.1	3.8	7.6	14.5
Intervertebral disc disorders	5,134	24.3	16.7	21.7	9.4
Bone spur or tendinitis, unspecified	3,285	11.3	14.4	13.9	6.6
Disorders of bone or cartilage	1,670	3.7	8.4	6.9	3.3 ^c
Trouble with bunions	2,799	3.6	17.2	10.4	12.6
Bursitis, unclassified	5,097	17.7	22.0	20.2	21.5
Sebaceous skin cyst	1,339	5.6	5.1	5.2	4.9 ^c
Trouble with acne	5,009	18.3	22.0	20.7	15.4
Psoriasis	2,495	10.8	9.3	10.7	5.2 ^c
Dermatitis	10,146	32.8	47.8	41.4	33.2
Trouble with dry (itching) skin, unclassified	5,383	17.1	25.0	21.7	16.5
Trouble with ingrown nails	6,273	23.3	25.4	25.2	21.6
Trouble with corns and calluses	4,433	12.0	21.9	16.9	25.1

See footnotes on first page of table.

(Continued)

Table 47 (Cont.)

**Morbidity from Selected Chronic Conditions,
United States,^a 1992**

Condition	Number of cases (thousands)	Age-adjusted prevalence rates ^b			
		Male	Female	White	Black
Impairments					
Visual impairment	8,976	46.5	24.4	35.6	34.5
Color blindness	3,164	23.2	2.6	13.7	7.8
Cataracts	6,721	20.9	27.6	24.9	24.9
Glaucoma	2,486	10.0	8.8	9.0	13.3
Hearing impairment	23,777	113.8	71.4	96.9	61.9
Tinnitus	7,779	33.9	27.0	31.8	22.2
Speech impairment	3,096	16.4	8.1	10.7	24.7
Absence of extremities (excludes tips of fingers or toes only)	1,577	10.2	2.5	6.3	5.9 ^c
Paralysis of extremities, complete or partial	1,461	6.1	5.1	5.4	7.8
Deformity or orthopedic impairment	31,605	124.8	124.6	130.6	101.7
Back	18,692	66.0	81.6	78.7	51.8
Upper extremities	4,464	20.0	15.2	18.1	13.2
Lower extremities	12,832	56.0	44.8	50.9	54.7
Selected digestive conditions					
Ulcer	4,408	16.2	18.5	17.3	19.0
Hernia of abdominal cavity	5,228	22.5	18.0	21.8	13.0
Gastritis or duodenitis	3,045	10.1	13.6	12.4	12.0
Frequent indigestion	6,374	26.0	24.4	26.7	14.8
Enteritis or colitis	2,455	7.5	11.8	11.0	2.3 ^c
Spastic colon	1,622	2.0	10.5	7.2	1.3 ^c
Diverticula of intestines	2,117	4.9	10.3	8.8	2.4 ^c
Frequent constipation	4,296	9.2	23.4	16.1	23.1

See footnotes on first page of table.

Table 48

Numbers of Newly Reported Cases of AIDS^a and Numbers of Deaths of Adults and Adolescents,^b United States, by Exposure Category, 1984–1993^c

Exposure category	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993 ^c
NEW CASES										
Total	4,462	8,179	13,077	20,952	31,403	34,477	42,596	44,832	46,335	105,990
Men who have sex with men	2,890	5,469	8,579	13,590	18,064	19,926	24,148	24,216	23,936	49,963
Injecting drug use (female and heterosexual male)	799	1,425	2,297	3,650	7,663	8,110	10,215	11,314	11,425	29,399
Men who have sex with men and inject drugs	422	613	1,002	1,574	2,216	2,292	2,524	2,551	2,429	6,098
Heterosexual contact	172	289	564	916	1,640	2,028	2,851	3,512	4,114	9,570
Hemophilia/coagulation disorder	39	74	123	207	299	292	342	316	316	1,096
Receipt of blood transfusion, blood components, or tissue	49	171	300	626	839	758	839	695	673	1,215
Risk not reported or identified	91	138	212	389	682	1,071	1,677	2,228	3,442	8,649
DEATHS										
Total	3,372	6,706	11,649	15,568	20,043	26,763	28,683	31,381	23,176	22,615
Men who have sex with men	2,074	4,272	7,389	9,196	11,577	15,560	16,560	18,077	13,533	10,264
Injecting drug use (female and heterosexual male)	665	1,269	2,191	3,396	4,768	6,384	6,739	7,328	4,968	6,923
Men who have sex with men and inject drugs	331	520	887	1,185	1,336	1,629	1,720	1,785	1,313	1,163
Heterosexual contact	129	248	441	683	975	1,418	1,738	2,118	1,725	1,724
Hemophilia/coagulation disorder	27	77	108	159	195	224	252	232	170	213
Receipt of blood transfusion, blood components, or tissue	67	196	374	554	635	639	582	548	351	336
Risk not reported or identified	79	124	259	395	557	909	1,092	1,293	1,116	1,992

^a Cases classified by year of report.^b Deaths classified by year of death.^c Due to lag time in reporting, 1993 numbers of deaths are incomplete.

Source: Centers for Disease Control and Prevention

Table 49

**Numbers of Adult and Adolescent Cases of AIDS, by Gender, Race/Ethnicity,
and Exposure Category Reported in 1993, United States**

Exposure category	Total ^a	White, not Hispanic	Black, not Hispanic	Hispanic	Asian/ Pacific Islander	American Indian/ Alaskan Native
<i>ADULT AND ADOLESCENT MALES</i>						
Total males	89,165	43,987	28,792	15,301	665	281
Men who have sex with men	49,963	32,188	10,509	6,519	509	177
Injecting drug use	21,571	4,634	10,961	5,872	33	27
Men who have sex with men and inject drugs	6,098	3,296	1,871	853	24	46
Heterosexual contact	3,317	707	1,833	752	16	6
Hemophilia/coagulation disorder	1,069	868	110	71	12	8
Receipt of blood transfusion, blood components, or tissue	686	408	178	83	13	1
Risk not reported or identified	6,461	1,886	3,330	1,151	58	16
<i>ADULT AND ADOLESCENT FEMALES</i>						
Total females	16,824	4,103	9,220	3,324	97	55
Injecting drug use	7,827	1,889	4,428	1,458	17	18
Heterosexual contact	6,253	1,557	3,139	1,474	54	24
Hemophilia/coagulation disorder	27	16	7	3	1	—
Receipt of blood transfusion, blood components, or tissue	529	235	187	90	13	3
Risk not reported or identified	2,188	406	1,459	299	12	10

^a Includes 247 males and 39 females whose race/ethnicity is unknown.

Source: Centers for Disease Control and Prevention

Table 50

**Numbers of Newly Reported Cases of Pediatric AIDS^a and Numbers of Deaths
of Children Under 13,^b United States, by Exposure Category, 1984–1993^c**

Exposure category	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993 ^c
<i>NEW CASES</i>										
Total	47	135	194	340	594	641	791	700	781	959
Mother with/at risk for HIV infection	40	107	162	267	486	569	711	634	733	895
Hemophilia/coagulation disorder	2	8	9	22	40	26	32	25	20	23
Receipt of blood transfusion, blood components, or tissue	4	20	23	51	64	41	38	39	18	24
Undetermined	1	–	–	–	4	5	10	2	10	17
<i>DEATHS</i>										
Total	50	116	162	290	311	360	387	378	386	324
Mother with/at risk for HIV infection	39	89	129	233	269	317	345	335	349	288
Hemophilia/coagulation disorder	2	5	12	16	13	19	12	15	16	17
Receipt of blood transfusion, blood components, or tissue	7	22	21	40	26	22	20	27	17	15
Undetermined	2	–	–	1	3	2	10	1	4	4

^a Cases classified by year of report.^b Deaths classified by year of death.^c Due to lag time in reporting, 1993 deaths are incomplete.

Source: Centers for Disease Control and Prevention

Technical Notes

The *NIH Data Book* (Basic Data Relating to the National Institutes of Health) has been published annually since 1961. The book is prepared within the Office of Strategic Planning and Evaluation, Office of Science Policy and Technology Transfer, Office of the Director. Additional copies of the current issue are available at NIH Information offices.

Rounding error: Detail may not add to totals because of rounding and, where noted, because of data included in totals only.

Revisions: Historical data are often revised.

Supplemental awards: Unless noted, supplemental awards are only counted when the parent award is from prior years' funds, and such supplements, if multiple, are counted as one.

Research training: Training totals, which include all NIH components, are greater than NIH National Research Service Award (NRSA) totals, as the National Library of Medicine does not use the NRSA to support training.

Sources of the data: Data are derived from NIH records and studies unless otherwise noted. OSPE develops the data on national and Federal support for health R&D from annual surveys and other sources. Sources of other information are:

- NIH awards and number of appointments in NIH training programs—Information Systems Branch, DRG;
- NIH obligations, appropriations, and number of full-time-equivalent training positions—Division of Financial Management, OD OA;
- NIH obligations for international programs—Fogarty International Center;

- CRADAs, patents, and licenses—NIH Office of Technology Transfer, OSTT;
- NIH personnel—Division of Personnel Management, OD OA;
- Prevention—NIH Division of Disease Prevention;
- Nutrition—NIH Division of Nutrition Research Coordination;
- AIDS: numbers of U.S. AIDS cases and numbers of deaths—Centers for Disease Control and Prevention; and
- Morbidity and mortality statistics—NCHS, with adjustments by NIH.

New NIH components:

- The Health Research Extension Act of 1985 (P.L. 99-158) created a new National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS), which was formally established on April 8, 1986. P.L. 99-158 designated the remaining components of the former National Institute of Arthritis, Diabetes, and Digestive and Kidney Diseases (NIADDK) as the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK). The new institutes are shown in obligations tables starting with FY 1986. In trend tables of awards, NIAMS and NIDDK have been projected back to the beginning of the trend period based on the NIADDK programs that were allocated to each new institute.
- P.L. 99-158 also created another new NIH component, at first called the National Center for Nursing Research (NCNR). It appears in trend tables starting in FY 1986 as well. In June of 1993, NCNR was reorganized and renamed the National Institute of Nursing Research (NINR).

(Continued)

Technical Notes (Cont.)

- The National Institute on Deafness and other Communication Disorders (NIDCD) was created by P.L. 100-553, which was signed into law on October 28, 1988. At that time, the former National Institute of Neurological and Communicative Disorders and Stroke (NINCDS) became the National Institute of Neurological Disorders and Stroke (NINDS). NIDCD and NINDS appear in obligations and appropriations tables starting in FY 1989. In trend tables of awards, NINDS has been projected back to the beginning of the trend period.
- The National Center for Human Genome Research (NCHGR) and the National Center for Research Resources (NCRR) were administratively established in FY 1990. NCRR replaces the old Division of Research Resources (DRR) and Division of Research Services (DRS).
- The ADAMHA Reorganization Act of 1992 (P.L. 102-321) resulted in the reorganization of the Alcohol, Drug Abuse, and Mental Health Administration into the Substance Abuse and Mental Health Services Administration (SAMHSA) and the transfer of its three research institutes into NIH. The bill was passed in July 1992 and took effect in November. The three institutes transferred are the National Institute on Alcohol Abuse and Alcoholism (NIAAA), the National Institute on Drug Abuse (NIDA), and the National Institute of Mental Health (NIMH). Wherever possible in trend tables, they have been included as part of NIH from the beginning of the trend period, so that consistent series are available.

Patricia E. McKinley, Ph.D., Editor

Definitions

Appropriations—represent an authorization by an act of Congress that permits Federal agencies to incur obligations and to make payments out of the Treasury for specified purposes. An appropriation usually follows enactment of authorizing legislation. Appropriations do not represent cash actually set aside in the Treasury for purposes specified in the appropriation act; they represent limitations of amounts that agencies may obligate during the period of time specified in the respective appropriation acts.

Awards—include R&D grants, contracts, and cooperative agreements, research training grants and fellowships, construction grants, medical library resource grants, and international training grants in epidemiology. See also “Extramural Obligations vs. Awards Reporting.”

Biotechnology—1985 definition—any technique that uses living organisms (or parts of organisms) to make or modify products, to improve plants or animals, or to develop microorganisms for specific uses. It includes research involving genetic manipulation, cloning of DNA, use of special techniques to isolate and detect DNA, creation of hybridomas and production of monoclonal antibodies, and computer methods used to analyze DNA and protein sequences. It also includes broad-ranging research in genetics, molecular biology, cell biology, and immunology which underlies new biotechnology.

Biotechnology—1991 definition developed by the OSTP Federal Coordinating Council for Science, Engineering and Technology (FCCSET) Committee on Life Sciences and Health—Biotechnology is broadly defined to include any technique that uses living organisms (or parts of organisms) to make or modify products, to improve plants or animals, or to develop microorganisms for specific use. The development of materials that mimic molecular structures or functions of living systems is included. These data are limited to research directed toward biotechnology, and further to “new biotechnology,” i.e., involv-

ing recombinant DNA, DNA transfer techniques, macromolecular structure, cell fusion, bioprocessing, etc.

Cooperative R&D Agreement—an agreement between a Federal laboratory and one or more collaborators (usually private corporations, but may also be State and local governments and nonprofit institutions), who for a designated period of time provide personnel, services, intellectual property, or information toward a joint research project. As an incentive for participation, the collaborating party may be granted, in advance, an exclusive right to license any resulting invention. The purpose of the CRADA is to make Federal facilities, scientific know-how, and existing intellectual property available for collaborative interactions with industry scientists, and for development of scientific and technological knowledge into useful, marketable products.

Extramural Obligations vs. Awards Reporting—differences between NIH extramural “obligations” and “awards” are caused by differences in the treatment of certain items (cancer control, scientific evaluation, administering vs. funding ICD, etc.) in the accounting methods used. In obligations tables, cancer control is separately identified; in awards tables, it is integrated within various mechanisms. This category accounts for the largest dollar difference between the two. Obligations tables include scientific evaluation grants/agreements, while awards tables do not. In obligations tables, ICD data are shown under the ICD which received the appropriation; in awards tables, the data are presented under the ICD with the administering responsibility. In obligations tables, FIC international fellowships are classified as research; in awards tables, they are included under training. Obligations tables include NIH interagency agreements (amounts appropriated to NIH but transferred to other Federal agencies for administration), and exclude funds appropriated to other agencies and transferred to NIH for administration. Conversely, awards tables include funds appropriated to other agencies but transferred to and administered by NIH, and exclude NIH interagency agreements.

(Continued)

Definitions (Cont.)

Health R&D—denotes biomedical, health services and other health-related R&D projects, resources, and general support, but no training or construction. In health R&D series (Tables 1–4), the NIH component contains certain items not classified as research in obligations tables, such as cancer control, portions of NLM and NIH direct operations, and foreign currency funds not directly appropriated to NIH.

Obligations—represent amounts of orders placed, grants, contracts, and cooperative agreements awarded, services received, and similar transactions during a given period that will require payments during the same or a future period; unless otherwise specified, includes both intramural and extramural activities.

Prevention—includes both prevention research and prevention-relevant research. The former is research directly applicable to interventions to prevent disease or to halt the progression of detectable but asymptomatic disease. The latter is research to understand the chain of causation of acute and chronic diseases, and therefore includes relevant basic research efforts.

R&D Contracts—include both intramural and extramural “N01” contracts and SBIR contracts. For NLM, not all contracts support activities that are strictly research.

Research Grants—include research project grants, center grants, and “other research” grants. See Table 32 for classifications. Note that cooperative agreements (U awards) are included under all three of these categories, and that RCPAs (K awards) are included under “other research.” Where NIH has been legislatively mandated to support a required number of “research grants,” this refers to the total of new, competing continuation, and competing supplemental *research project grants*.

Research Management and Support—includes management of extramural programs, ODs of ICDs, and some management costs applicable to overall operations.

Scientific Evaluation Grants/Agreements—are grants and cooperative agreements to chairmen of initial review groups, program project committees, training committees, and other review groups to provide funds for the operation of the group. These awards are included in obligations tables, but are excluded from awards tables.

Success Rates—number of competing project grants awarded as a percentage of the sum of the number of applications reviewed and the number of funded carryovers.

NIH Activity Codes Used in Extramural Programs^a

Code		Code	
C 06	Research Facilities Construction Grant	K 04	Modified Research Career Development Award
D 42	Hazardous Waste Worker Health and Safety Training Grant (NIEHS)	K 05	Research Scientist Award
D 43	International Training Grant in Epidemiology (FIC)	K 06	Research Career Award
F 05	International Fellowship (FIC)	K 07	Academic/Teacher Award
F 06	Senior International Fellowship (FIC)	K 08	Clinical Investigator Award
F 07	NIH-French Program for Scientific Collaboration Appointment (FIC)	K 10	Special Scientific Project Award (NLM)
F 15	Fogarty Scholars-in-Residence Program Appointment (FIC)	K 11	Physician Scientist Award (Individual)
F 20	Foreign Funded Fellowship (FIC)	K 12	Physician Scientist Award (Program)
F 30	Predocutorial Individual National Research Service Award for MD/PhD	K 14	Minority School Faculty Development Award
F 31	Predocutorial Individual National Research Service Award	K 15	Dentist Scientist Award (Individual)
F 32	Postdoctoral Individual National Research Service Award	K 16	Dentist Scientist Award (Program)
F 33	National Research Service Award for Senior Fellows	K 20	Scientist Development Award for Clinicians
F 34	MARC (NRSA) Faculty Fellowship	K 21	Scientist Development Award
F 35	Intramural NRSA Individual Postdoctoral Program Appointment	M 01	General Clinical Research Center Award (NCRR)
F 36	MARC Visiting Scientists Fellowship (NIGMS)	N 01	Research and Development Contract
F 37	Postdoctoral Medical Informatics Fellowship (NLM)	N 43	Small Business Innovation Research—Phase I (Contract)
F 38	Senior Medical Informatics Fellowship (NLM)	N 44	Small Business Innovation Research—Phase II (Contract)
G 07	Resources Improvement Grant (NLM)	P 01	Research Program Project Award
G 08	Resources Project Grant (NLM)	P 20	Exploratory Grant
G 12	Research Centers in Minority Institutions Award (NCRR)	P 30	Center Core Grant
G 20	Grant for Repair, Renovation, and Modernization of Existing Research Facilities (NCRR)	P 40	Animal and Biological Materials Resource Grant (NCRR)
K 01	Research Scientist Development Award—Research and Training	P 41	Biotechnology Resource Grant
K 02	Research Scientist Development Award—Research	P 42	Hazardous Substances Basic Research Grant (NIEHS)
		P 50	Specialized Center Award
		P 51	Primate Research Center Grant (NCRR)

^a Represents NIH activity codes of the NIH IMPAC System (Information for Management, Planning, Analysis, and Coordination). Some activity codes are specific to only one ICD.

NIH Activity Codes Used in Extramural Programs^a (Cont.)

Code		Code	
P 60	Comprehensive Center Award	S 14	Minority Biomedical Research Support Grant for Undergraduate Colleges
R 01	Research Project Award (Traditional)	S 15	Small Instrumentation Grant
R 03	Small Research Grant		
R 10	Cooperative Clinical Research Grant	T 14	Conference Award
R 12	Mental Health Special Grant (NIMH)	T 15	Continuing Education Training Program Award
R 13	Conference Award (Traditional)	T 22	Institutional Research Fellowship
R 15	Academic Research Enhancement Award	T 32	Institutional National Research Service Award
R 18	Research Demonstration and Dissemination Project Award	T 34	MARC Undergraduate NRSA Institutional Grant
R 19	Grants to States for Research Projects and the Development of Research-Related Resources	T 35	NRSA Short-Term Research Training Award
R 21	Exploratory/Developmental Grant	T 36	MARC Visiting Professors for Minority Institutions Grant
R 22	U.S.-Japan Cooperative Medical Science Program Award	U 01	Research Project Cooperative Agreement
R 23	New Investigator Research Award	U 09	Scientific Review and Evaluation Cooperative Agreement
R 24	Resource-Related Research Project Grant	U 10	Cooperative Clinical Research Cooperative Agreement
R 25	Education Project Award	U 18	Research Demonstration Cooperative Agreement
R 26	National Organ Systems Project Award (NCI)	U 19	Research Program Cooperative Agreement
R 29	First Independent Research Support and Transition (FIRST) Award	U 24	Resource-Related Research Project Cooperative Agreement (NCRR)
R 35	Outstanding Investigator Grant	U 26	Organ Systems Coordinating Center Cooperative Agreement (NCI)
R 37	Method to Extend Research in Time (MERIT) Award	U 40	Animal Resource Cooperative Agreement (NCRR)
R 43	Small Business Innovation Research (SBIR) Grant—Phase I	U 41	Biotechnology Resource Cooperative Agreement (NCRR)
R 44	Small Business Innovation Research (SBIR) Grant—Phase II	U 42	Animal and Biological Materials Resource Cooperative Agreement (NCRR) (replaces U 40)
R 55	Shannon Director's Award	U 43	Small Business Innovation Research (SBIR) Cooperative Agreement—Phase I
S 03	Minority High School Student Research Apprentice Program Award (NCRR)	U 45	Hazardous Waste Worker Health and Safety Training Cooperative Agreement (NIEHS) (replaces D 42)
S 06	Minority Biomedical Research Support Award	U 50	Specialized Center Cooperative Agreement
S 07	Biomedical Research Support Grant (NCRR)	U 54	Specialized Center Cooperative Agreement (replaces U 50)
S 10	Biomedical Research Support Shared Instrumentation Grant (NCRR)		
S 11	Minority Biomedical Research Support Thematic Project Grant Code		

See footnote on previous page.

Abbreviations

A & S—Arts and Sciences	FTTP—Full-Time-Equivalent Training Positions (research training)
ADAMHA—Alcohol, Drug Abuse, and Mental Health Administration ^a	FY—Fiscal Year: October 1–September 30
AHCPR—Agency for Health Care Policy and Research	GNP—Gross National Product
AID—Agency for International Development	GRS—General Research Support grants
AIDS—Acquired Immunodeficiency Syndrome	HCFA—Health Care Financing Administration
BRD—Biomedical Research Development grants	HHMI—Howard Hughes Medical Institute
BRDPI—Biomedical R&D Price Index	HHS—Department of Health and Human Services
BRS—Biomedical Research Support grants	HIV—Human Immunodeficiency Virus
CC—Clinical Center	HRSA—Health Resources and Services Administration
CDC—Centers for Disease Control and Prevention	ICD—International Classification of Diseases
CRADAs—Cooperative R&D Agreements	ICDs—Institutes, Centers, and Divisions
DCRT—Division of Computer Research & Technology	IHS—Indian Health Service
DRG—Division of Research Grants	IMPAC—Information for Management, Planning, Analysis, and Coordination
DRR—Division of Research Resources ^a	MARC—Minority Access to Research Careers
DRS—Division of Research Services ^a	MBS—Minority Biomedical Support grants
FCCSET—Federal Coordinating Council for Science, Engineering and Technology, OSTP	MSTP—Medical Scientist Training Program
FDA—Food and Drug Administration	n.a.—not available
FFRDC—Federally Funded R&D Center	NCHGR—National Center for Human Genome Research
FIC—John E. Fogarty International Center for Advanced Study in the Health Sciences	NCHS—National Center for Health Statistics
FTE—Full-Time Equivalent (personnel)	NCI—National Cancer Institute
	NCNR—National Center for Nursing Research ^a

^a No longer exists due to reorganization.

(Continued)

Abbreviations (Cont.)

NCCR—National Center for Research Resources	NINR—National Institute of Nursing Research
NEI—National Eye Institute	NLM—National Library of Medicine
NHLBI—National Heart, Lung, and Blood Institute	NRSAs—National Research Service Awards
NIA—National Institute on Aging	NSF—National Science Foundation
NIAAA—National Institute on Alcohol Abuse and Alcoholism	OA—Office of Administration, NIH
NIADDK—National Institute of Arthritis, Diabetes, and Digestive and Kidney Diseases ^a	OASH—Office of the Assistant Secretary for Health
NIAD—National Institute of Allergy and Infectious Diseases	OD—Office of the Director, NIH or ICD
NIAMS—National Institute of Arthritis and Musculoskeletal and Skin Diseases	OMB—Office of Management and Budget (White House)
NICHD—National Institute of Child Health and Human Development	ORS—Office of Research Services, NIH
NIDA—National Institute on Drug Abuse	OSPE—Office of Strategic Planning and Evaluation, OSPTT (formerly Division of Planning and Evaluation, OSPL)
NIDCD—National Institute on Deafness and Other Communication Disorders	OSPTT—Office of Science Policy and Technology Transfer (formerly Office of Science Policy and Legislation), NIH
NIDDK—National Institute of Diabetes and Digestive and Kidney Diseases	OSTP—Office of Science and Technology Policy of the Executive Office of the President
NIDR—National Institute of Dental Research	PHS—Public Health Service
NIEHS—National Institute of Environmental Health Sciences	R&D—Research and Development
NIGMS—National Institute of General Medical Sciences	RCMIs—Research Centers in Minority Institutions awards
NIH—National Institutes of Health	RCPAs—Research Career Program Awards
NIMH—National Institute of Mental Health	SAMHSA—Substance Abuse and Mental Health Services Administration
NINCDS—National Institute of Neurological and Communicative Disorders and Stroke ^a	SBIR—Small Business Innovation Research
NINDS—National Institute of Neurological Disorders and Stroke	

See footnote on previous page.

Index

	Pages
Abbreviations	114–115
Acquired immunodeficiency syndrome. <i>See</i> AIDS	
Activity codes	112–113
Acute conditions, morbidity from	100–101
ADAMHA, former components, NIH appropriations	10
Adults and adolescents, AIDS cases and deaths	105, 106
AIDS. <i>See also</i> HIV	
adult and adolescent cases and deaths	105, 106
cases and deaths reported in the United States, by exposure category, 1984–1993	105–107
by gender, race/ethnicity, and exposure, 1993	106
obligations by NIH and other PHS components, 1984–1994	24–25
obligations by NIH component and functional category, 1994	26
pediatric cases and deaths	107
Applications for competing research projects, 1984–1993	80
Appropriations, by NIH component, 1984–1994	10–11
Award rates. No longer reported. <i>See</i> Success rates	
Awards. <i>See also</i> Construction grants; Contracts; Research grants; Research training	
average size, by kind of award, 1984–1993	54–55
average size, by kind of award and NIH component, 1984 and 1993	56–61
by kind of performing institution and funding mechanism, 1993	48–49
by NIH component and funding mechanism, 1984–1993	29–31
by NIH component and kind of performing institution, 1993	50–51
by NIH component and kind of performing institution, 1984–1993	46–47
by State and funding mechanism	52–53
to medical schools, by funding mechanism, 1984–1993	64
to universities and colleges, by component and funding mechanism, 1993	62–63
Basic research support	
national, Federal, and NIH, 1984–1993	7
Biomedical R&D Price Index	3, 12–13, 54–55, 82–83, <i>Inside back cover</i>
Biomedical research support and development grants	54–61, 32–45, 66–67, 74–75
Biotechnology research	27

	Pages
Cancer control	
NIH obligations	14–15, 20
Cancer mortality rates	98–99
Career development awards	
by recipient's type of doctorate, 1984–1993	84–85
Children. <i>See</i> Pediatric AIDS cases and deaths	
Chronic conditions, morbidity from	102–104
Clinical Center data	
by NIH component, 1987, 1990, and 1993	95
Clinical trials, obligations for	28
Codes, NIH activity	112–113
Colleges. <i>See</i> Universities and colleges	
Construction grants (awards)	
by NIH component and funding mechanism, 1984–1993	29–31
by NIH component, 1993	32–45
Construction (obligations)	20
Contracts (awards)	
average size	54–61
by NIH component, 1993	32–45
by NIH component and funding mechanism, 1984–1993	29–31
Contracts (obligations)	14–21
Cooperative clinical research grants	32–45, 54–61, 66–67, 74–75
Cooperative R&D agreements (CRADAs)	8, 9
Death rates. <i>See</i> Mortality	
Definitions	110–111
Diabetes	
morbidity from	102
mortality from	98
Disease	
morbidity from	100–104
mortality from	98–99

(Continued)

 Index (Cont.)

	Pages		Pages
Equipment, dollars budgeted for	74-75	Indirect costs, research grants	76-77
Ethnicity. <i>See</i> Race/ethnicity		Industry as performer of health R&D	4
Extramural awards. <i>See</i> Awards		International programs (obligations)	21
Extramural program activity codes	112-113	Intramural research	
Full-time-equivalent training positions (FTTP). <i>See also</i> Research training		NIH obligations	14-20
by academic level, NIH component, and type, 1984-1993	90-93	Licenses issued	8, 9
by academic level, NIH component, and type, 1993	94	M.D.s	
Gender, number of adult and adolescent AIDS cases and deaths	106	career development awards	84-85
Gender of principal investigator or program director,		NIH personnel	96-97
research grants by NIH component, 1993	72-73	research training appointments	86-89
Grants (obligations)	14-21	Medical schools	
Health costs		as performers of health R&D	6
national expenditures	1	awards to	
percentage change, 1985-1993	1	1984-1993	46-47
Health R&D support		by component and funding mechanism	62-63
as percentage of total R&D and total health costs	1	by funding mechanism, 1984-1993	64
by source of funds and performer, 1993	4	by NIH component	50-51
by source of funds or performer, 1984-1994	2-3	Minority biomedical support research grants	32-45, 54-61, 66-67, 74-75
Federal obligations	5-6	Morbidity	
national expenditures	1	AIDS, cases reported in the United States,	
percentage change	1	by exposure category, 1984-1993	105-107
Higher education. <i>See</i> Universities and colleges		selected acute conditions, United States	100-101
HIV. <i>See also</i> AIDS		selected chronic conditions, United States	102-104
mortality from infection	98	Mortality	
obligations by NIH and other PHS components, 1984-1994	24-25	AIDS, United States, by exposure category, 1984-1993	105, 107
obligations by NIH component and functional category, 1994	26	selected causes, United States, 1981 and 1991	98-99
Hospitals		National expenditures, 1984-1993	
awards to, 1984-1993	46-47	health R&D	1
awards to, by funding mechanism	48-49	total health costs	1
awards to, by NIH component	50-51	total R&D	1
awards to, indirect costs, 1984-1993	76-77	Nutrition research and training, obligations	23
Human immunodeficiency virus. <i>See</i> HIV		Obligations, Federal	
		for health R&D, 1984-1993, by source or performer	5-6

(Continued)

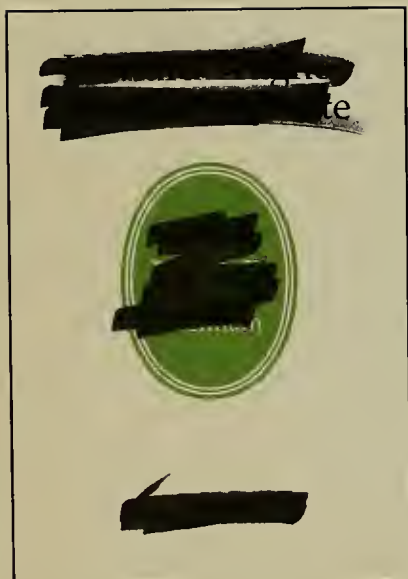
 Index (Cont.)

	Pages		Pages
Obligations, NIH		Race/ethnicity, number of adult and adolescent AIDS cases and deaths	106
by function/mechanism	14–20	RCPAs. <i>See</i> Research career program awards	
by NIH component	12–19, 21	R&D contracts. <i>See</i> Contracts	
by program activity	14–19, 21	R&D support. <i>See also</i> Basic research support; Health R&D support	
for AIDS, 1984–1994	24–25	national expenditures	1
for biotechnology research, by NIH component, 1985–1993	27	percentage change, 1985–1993	1
for clinical trials, by NIH component, 1984–1993	28	Research career program awards (RCPAs)	32–45, 54–61, 66–67, 74–75
for international programs, by activity and NIH component	21	Research grants (awards)	
for nutrition research and training, by NIH component, 1984–1993	23	biomedical research support and development	32–45, 54–61, 66–67, 74–75
for prevention research, by NIH component, 1984–1993	22	by kind of grant, 1984–1993	42–45
Organizational chart, National Institutes of Health	ii	by kind of grant and NIH component	32–41
Patents issued under NIH CRADAs	8, 9	by kind of grant and type	66–67
Pediatric AIDS cases and deaths	107	by NIH component and funding mechanism, 1984–1993	29–31
Personnel		by NIH component and gender of principal investigator or program director, 1993	72–73
by degree held, type of occupation, NIH component, program, and status	96–97	by NIH component and race of principal investigator or program director, 1993	70–71
Ph.D.s		by NIH component and type	65
career development awards	84–85	by State and funding mechanism	52–53
NIH personnel	96–97	by type, 1984–1993	68–69
research training appointments	86–89	cooperative clinical	32–45, 54–61, 66–67, 74–75
Postdoctoral training		indirect costs, by type of performer, 1984–1993	76–77
appointments	86–88	minority biomedical support	32–45, 54–61, 66–67, 74–75
full-time-equivalent positions, 1984–1993	90–94	number of awards and success rates, by NIH component, 1984–1993	78–79
Predoctoral training		research career program awards (RCPAs)	32–45, 54–61, 66–67, 74–75
appointments	86–89	research centers	32–45, 48–49, 54–61, 62–63, 66–67, 74–75
full-time-equivalent positions, 1984–1993	90–94	research projects	32–45, 48–49, 54–61, 62–63, 66–67, 74–75
Prevalence. <i>See</i> Morbidity		competing	
Prevention research		applications, 1984–1993	80
for HIV and AIDS, 1994	26	number of awards and success rates, by NIH component, 1984–1993	78–79
NIH obligations for, 1984–1993	22	traditional research projects (R01s)	32–45
Program activities, NIH obligations by component	14–19	average size, by NIH component, 1984–1993	82–83
Race of principal investigator or program director,		competing, by NIH component, 1984–1993	
research grants by NIH component, 1993	70–71	average length in years	81
		with dollars budgeted for equipment, by kind of grant, 1984–1993	74–75

(Continued)

 Index (Cont.)

Pages	Pages
Research grants (obligations)	14–21
Research institutes	
awards to, 1984–1993	46–47
awards to, by funding mechanism	48–49
awards to, by NIH component	50–51
awards to, indirect costs, 1984–1993	76–77
Research management and support	
NIH obligations	14–20
Research training. <i>See also</i> Full-time-equivalent training positions	
appointments by academic level and type	86–89
awards	
average size, 1984–1993	54–55
by NIH component	29–31
by NIH component and funding mechanism, 1984–1993	29–31
by State and funding mechanism	52–53
individual and institutional	48–49, 52–64, 86–88
obligations	14–21
Royalties received by NIH	8, 9
States, awards to	52–53
Success rates	78–79
Table finder key	<i>Inside front cover–i</i>
Technical notes	108–109
Technology transfer services, 1985–1993	8–9
Training (awards)	
by kind of award, 1984–1993	42–45
by kind of award and NIH component	32–41
Universities and colleges	
as performers of health R&D	4, 6
awards to	
1984–1993	46–47
by component and funding mechanism	62–63
by funding mechanism	48–49
by NIH component	50–51
indirect costs, 1984–1993	76–77
Federal basic research support to	7



<http://nihlibrary.nih.gov>

10 Center Drive
Bethesda, MD 20892-1150
301-496-1080

**NIH Biomedical Research and Development Price Index
(BRDPI), Fiscal Years 1984–1994**

(Weight Base = Fiscal Year 1988)

Fiscal year	1984 =100	1985 =100	1986 =100	1987 =100	1988 =100	1989 =100	1990 =100	1991 =100	1992 =100	1993 =100	1994 =100
1984	100.0	95.0	91.2	86.6	82.5	78.4	74.3	70.8	67.6	65.2	62.8
1985	105.2	100.0	96.0	91.1	86.8	82.5	78.2	74.5	71.2	68.6	66.1
1986	109.7	104.2	100.0	95.0	90.4	86.0	81.4	77.6	74.2	71.5	68.8
1987	115.5	109.7	105.3	100.0	95.2	90.5	85.8	81.8	78.1	75.3	72.5
1988	121.3	115.2	110.6	105.0	100.0	95.1	90.1	85.9	82.0	79.1	76.1
1989	127.6	121.2	116.3	110.5	105.2	100.0	94.8	90.3	86.3	83.2	80.1
1990	134.6	127.9	122.8	116.6	111.0	105.5	100.0	95.3	91.1	87.8	84.5
1991	141.2	134.2	128.8	122.3	116.5	110.7	104.9	100.0	95.5	92.1	88.7
1992	147.9	140.5	134.8	128.0	121.9	115.9	109.8	104.7	100.0	96.4	92.8
1993	153.4	145.7	139.9	132.8	126.5	120.2	113.9	108.6	103.7	100.0	96.3
1994 ^a	159.3	151.4	145.3	137.9	131.3	124.9	118.3	112.8	107.7	103.9	100.0

^a Projected. Index numbers for FY 1994 are based on OMB projections of the Implicit Price Deflator for the GNP, and the historical relationship between it and the BRDPI.

NIH LIBRARY



3 1496 01047 7829

NIH Publication No. 75-1251
March 1975